

# DATI TECNICI DEI TRANSISTORI PNP AL GERMANIO

(disposti in ordine della massima dissipazione al collettore (mW) e della massima frequenza (MHz) 5

TIPO	MAX. DISS. COLL. in aria libera a 25° C P <sub>c</sub> (mW)	Frequenza di Taglio f <sub>cb</sub> (MHz)	Resistenza Termica in aria libera T <sub>EM</sub> (°C/mm)	VALORI LIMITE 25°C				I <sub>co</sub> Max. con V <sub>ce</sub> max. a 25°C (μA)	PARAMETRI "h" CARATTERISTICI 25°C						Cob (pF)	STRUTTURA	COSTRUZIONE
				BV <sub>CEO</sub> (V)	BV <sub>CEO</sub> - BV <sub>CES</sub> (V)	BV <sub>CEO</sub> - BV <sub>CER</sub> (V)	I <sub>c</sub> (mA)		POLARIZZAZIONE			EMETTITORE COMUNE					
									V <sub>ce</sub> Δ-V <sub>ce</sub> (V)	I <sub>c</sub> Δ-I <sub>c</sub> (mA)	h <sub>ie</sub> Δ-h <sub>ie</sub> (Ω)	h <sub>oe</sub> (umho)	h <sub>ie</sub> (ohm)	h <sub>re</sub> (×10 <sup>-4</sup> )			
2SA315	60	55.0	∅	18		.50	5.0	10	6.00	1.0	110				2.0	D	TOSJ
AF134	60	55.0	∅	25	15	.70		6.0	6.00	1.00	110				2.8	D	TFKG
2SA316	60	75.0	∅	18		.50	5.0	6.0	6.00	1.0	110				2.0	D	TOSJ
AF124	60	75.0	.75∅	20	20		10	8.00	6.00	1.00	150				2.5	AD↑	PHIN
AF125	60	75.0	.75∅	20	20		10	8.00	6.00	1.00	150				2.5	AD↑	PHIN
AF126	60	75.0	.75∅	20	20		10	8.00	6.00	1.00	150				2.5	AD∅	PHIN
AF127	60	75.0	.75∅	20	20		10	8.00	6.00	1.00	150				2.5	AD∅	PHIN
T2788	60	90.0	1.3#S	20	200	.50	50	100	100	2.00	10†Δ				1.5	MD∅	PHIL
2N979	60	100Δ	1.3#S	20	200	2.0	100	3.00	.500	4.00	50†				1.5	MD	SPR
2N990	60	100Δ	1.3#S	20	12	2.0	100	5.00	.500	4.00	50†				1.5	MD	SPR
2N1726	60	100*	.80#S	20	200	1.0	50	100	6.00	1.00	50†Δ	1.0	40		2.5	ME	SPR
2N1727	60	100*	.80#S	20	200	.50	50	100	6.00	1.00	20†Δ	1.0	40		2.5	ME	GIC
2N1728	60	100*	.80#S	20	200	.50	50	100	6.00	1.00	40†Δ	1.0	40		2.5	ME	SPR
2N1788	60	100*	.80#S	35	350	1.0	50	5.0	120	1.00	50†Δ	1.0	40		2.5	ME	SPR
2N1789	60	100*	.80#S	35	350	.50	50	7.0	120	1.00	20†Δ	1.0	40		2.5	ME	SPR
2N1790	60	100*	.80#S	35	350	.50	50	7.0	120	1.00	40†Δ	1.0	40		2.5	ME	SPR
2N1864	60	100*	.80#S	20	200	.50	50	100	6.00	1.00	10†Δ	1.0	40		3†	ME	SPR
2N3412	60	100Δ	1.3#S	20	200	2.0	100	3.00	5.00	1.0	25Δ				3†	ME	GIC
2N1499A	60	110	1.3#S	20	200	2.0	100	25	.500	4.00	50†				1.5	ME	GIC
2N1499A	60	110	1.3#S	20	200	2.0	100	25	.500	4.00	50†				1.5	ME	GIC
2N1748A	60	132	1.3#S	25	250	1.0	50	100	6.0	1.0	70	b.13	26		1.3	ME	SPR
T2946	60	150	1.3#S	20	200	.50	50	100	100	2.00	10†Δ				1.3	MD∅	PHIL
2N499A	60	170	1.3#J	30		.50	50	15	9.0	1.0	50				1.3	MD†	GIC
2N499A	60	170	1.3#J	30		.50	50	15	9.0	1.0	50				1.3	MD†	GIC
2N501	60	175	1.3#S	15	120	2.0	50	100	.500	1.00	70†				1.8	MD	GIC
2N501A	60	175	1.3#J	15	12	2.0	50	25	.500	1.00	95†				1.1	MD	GIC
2N1500	60	175	1.3#S	15	12	2.0	50	25	.500	1.00	70				1.5	MD	GIC
2N1500	60	175	1.3#S	15		2.0	50	1.5	.500	1.00	70†				1.5	MD	SYL
2N1746	60	175*	1.3#S	20	200	.50	50	100	6.00	1.00	60†	9.0	1.5K	1.3	1.2	ME	SPR
2N588A	60	200*Δ	1.0#S	15	150	.50	50	15	.300	1.00	30†Δ				1.2	ME	GIC
2N1745	60	200	1.3#S	20	200	.50	50	100	100	2.00	10†Δ				1.5	ME	PHIL
2N1747	60	200	1.3#S	20	200	.50	50	100	6.00	1.00	60†	9.0	1.5K	1.3	1.8	ME	SPR
2N1865	60	200	1.3#S	20	200	.50	50	100	6.00	1.00	70	7.0	2.0K	1.2	1.8	ME	SPR
2N1866	60	200	1.3#S	35	350	.50	50	100	120	1.00	70	7.0	2.0K	1.1	1.8	ME	SPR
2N1867	60	200	1.3#S	35	350	.50	50	100	120	1.00	50	7.0	2.0K	1.1	1.8	ME	SPR
AFY12	60*	230	.75#J	25	18	.50	10	10	12	1.00	65				1.1	ME	SIHG
2N502	60	260	1.0#J	20	200	.50	50	20	100	2.0	65				1.0	MD∅	SPR
T2945	60	300Δ	#S	20	200	.50	50	100	100	2.00	20Δ				1.5	MD	PHIL
2N984	60	350	1.3#S	15	10	2.0	100	5.00	.500	1.00	70†				1.9	MD	SPR
2N2170	60	350	1.3#S	15	150	2.0	100	5.00	.500	1.00	70†				1.9	MD	SPR
2N2487	60	360†Δ		10			100	3.00	.500	1.00	20†Δ				3†	MA	SPR
2N2488	60	360†Δ		10			100	3.00	.500	1.00	20†Δ				3†	MA	SPR
2N2489	60	360†Δ		15			100	2.50	.500	1.00	20†Δ				3†	MA	SPR
2SA436	60	400		20		.50	10	30	6.0	3.0	10Δ				1.2	ME	HITJ
2SA437	60	400		20		.50	10	30	6.0	3.0	10Δ				1.2	ME	HITJ
2SA438	60	400		20		.50	10	30	6.0	3.0	10Δ				1.2	ME	HITJ
2N779A	60	450	1.3#S	15	150	2.0	100	25	.500	5.00	85				1.4	MD	SPR
2N846	60	450	1.3#S	15	150	2.0	50	25	.500	5.00	35†				1.9	MD	SPR
2N846A	60	450	1.3#S	15	150	2.0	100	3.00	.500	5.00	35†				1.9	MD	SPR
2N982	60	450	1.3#S	20	15	2.0	100	3.00	.500	1.00	100†				1.5	MD	SPR
2N983	60	450	1.3#S	15	15	2.0	100	3.00	.500	1.00	85†				1.9	MD	SPR
2N2168	60	450	1.3#S	20	200	2.0	100	3.00	.500	1.00	100†				1.9	MD	SPR
2N2169	60	450	1.3#S	15	150	2.0	100	3.00	.500	1.00	85†				1.9	MD	SPR
2N779	60	480	1.3#	15			50	25	.500	1.00	90†				1.9	MD	SPR
AFY16	60*	500	.75#J	30	25	.50	8.0	3.00	120	1.50	60†				1.5	ME	SIHG
2N1868	60	800	1.3#S	20	200	.50	50	100	100	2.00	33†				1.5	ME	SPR
2N2360	60	1600	1.3#S	20		.50		100	100	2.00	33†				1.5	MD	PHIL
2N2361	60	1600	1.3#S	20		.50		100	100	2.00	33†				1.5	MD	PHIL
2N2362	60	1600*	1.3#S	20	200	.50		100	100	2.00	33†				1.5	MD	PHIL
2N2398	60	1600*	1.3#S	20	200	.50		100	100	2.00	33†				1.5	MD	PHIL
2N2399	60	1600*	1.3#S	20	200	.50		100	100	2.00	33†				1.5	MD	PHIL
2SA340	63	70.0	.80∅	20		.50	10	130	6.0	1.0	100				1.5	AD	MATJ
2SA341	63	70.0	.80∅	20		.50	10	130	6.0	1.0	100				1.5	AD	MATJ
2SA342	63	100	.80∅	20		.50	10	130	6.0	1.0	100				1.5	AD	MATJ
2SA277	65		∅	18		12	40	10	1.00	240	50†				10	AA	TOSJ
2SA278	65		∅	18		12	40	10	1.00	240	100†				10	AA	TOSJ
2SB282	65		#J	20		2.5	30	120	6.0	1.0	45	20	2000	6.0	9.5	A	KOKJ
2SB282	65		#J	20		2.5	30	120	6.0	1.0	60†				9.5	A	KOKJ
2SB290	65	1.00	∅	18		12	40	10	6.00	1.00	125	45	2500	5.0	9.5	A	TOSJ
2SA304	65	4.50	∅	18		12	40	40	6.0	1.0	70				11	A	TOSJ

# DATI TECNICI DEI TRANSISTORI PNP AL GERMANIO

(disposti in ordine della massima dissipazione al collettore (mW) e della massima frequenza (MHz) 6

TIPO	MAX. DISS. COLL. in aria libera a 25° C Pc (mW)	Frequenza di Taglio f <sub>ob</sub> (MHz)	Resistenza Termica in aria libera °C/(mW)	M A S S I M A T E M P E	VALORI LIMITE 25°C				I <sub>co</sub> Max. con V <sub>ce</sub> max. a 25°C (μA)	PARAMETRI "h" CARATTERISTICI 25°C						Cob (pF)	STRUTTURA	COSTRUTTORE
					BV <sub>ceo</sub> (V)	Δ-BV <sub>ces</sub> Δ-BV <sub>ces</sub> (V)	BV <sub>ceo</sub> (V)	I <sub>c</sub> (mA)		POLARIZZAZIONE			EMETTITORE COMUNE					
										V <sub>ce</sub> Δ-V <sub>ce</sub> (V)	I <sub>c</sub> Δ-I <sub>c</sub> (mA)	h <sub>ie</sub> Δ-h <sub>ie</sub> (Ω)	h <sub>oe</sub> (ohm)	h <sub>ie</sub> (ohm)	h <sub>re</sub> (>10 <sup>-4</sup> )			
2SA305	65	10.0	.75	18	18	12	40	4.0	6.0	1.0	70				11	A	TOSJ	
NKT33	66	3.00	.75	10	10	12	10	3.00	6.0	1.0	75	b.60			10	A	NTLB	
NKT43	66	3.00Δ	.75	10	10	12	10	3.00	6.0	1.0	75	b.60			10	A	NTLB	
NKT32	66	7.50Δ	.75	10	10	12	10	3.00	6.0	1.0	100	b.60			10	A	NTLB	
NKT42	66	7.50Δ	.75	10	10	12	10	3.00	3.0	1.0	100	b.60			10	A	NTLB	
2N990	67	70.0	.75	32	32	1.0	10	8.00	6.00	1.0	150	b.300			2.5	A AD	PHIN	
2N993	67	70.0	.75	32	32	1.0	10	8.0	6.00	1.0	150	1.0	4000	160	8.0	AD	PHIN	
2SA432	70			20		.20	5.0	10	6.0	1.0	16						TOSJ	
2SB264	70	1.00		25			5.0	100	1.50	.50	65					15	ME	NECJ
MB 124	70	900	.90	20		.20	5.0	10			15					.30		TOSJ
AF109	72	200Δ	.90	15			12											SIHG
2N1158A	75		1.0	20	18	.50	100	5.00	10	3.0	50				2.8	ME	PHIL	
2SA276	75			15		2.0	20	5.00	.500	100	60†							TOSJ
2SB306	75			105		50	20	10	.350	2.00	60†							TOSJ
AC131	75			30		10	200	30	1.0	50	67							TFKG
NKT242	75			16			100		1.5	15	30†							NTLB
V10/1SJ	75		.40	10			500		.35	400	40†							NTLB
V10/2S	75		.40	10		20	500		.35	400	25†							NTLB
V10/2SJ	75		.40	10			500		.35	400	25†							NTLB
2N331	75	.40Δ	.80	30		12	50	10	6.0	1.0	30Δ	b1.00	50		50			BEN
2N206	75	.78	.30	30		12	50	10	5.0	1.0	47	b.55	33	3.2	35			ETC
2N2447	75	1.00	.80	45	24	12	100	100	6.00	1.0	65	25	1800	5.0		FA	RAYN	
2N2448	75	1.00	.80	45	24	12	100	100	6.00	1.0	65	25	1800	5.0		FA	RAYN	
2N2449	75	1.20	.80	35	20	12	100	100	6.00	1.0	125	36	3600	7.0		FA	RAYN	
2N2450	75	1.20	.80	35	20	12	100	100	6.00	1.0	125	36	3600	7.0		FA	RAYN	
CK22B	75	1.20	.80	20	15	12	100	10	6.00	1.0	90	36	3600	7.0		FA	RAYN	
2N265	75	1.50	.50	25			50	16	5.0	1.0	115	b.50	29	4.0		A†	ETC	
NKT52	75	3.00Δ	.66	10	100		10	2.0										NTLB
NKT53	75	3.00Δ	.66	10	100		10	2.0										NTLB
NKT54	75	3.00Δ	.66	10	100		10	2.0										NTLB
NKT62	75	3.00Δ	.66	10	100		10	2.0										NTLB
NKT63	75	3.00Δ	.66	10	100		10	2.0										NTLB
NKT64	75	3.00Δ	.66	10	100		10	2.0										NTLB
NKT72	75	3.00	.66	10	100		10	10							10			NTLB
NKT73	75	3.00	.66	10	100		10	10							10			NTLB
NKT74	75	3.00	.66	10	100		10	10							10			NTLB
V6/2R	75	3.00	.67	6.0		6.0	30		4.5	1.0	30							NTLB
NKT103	75	5.00	.66	20	200	6.0	500	40	4.50	1.00	75				20	A	NTLB	
NKT106	75	5.00	.66	20	200	6.0	500	40	4.50	1.00	75				20	A	NTLB	
NKT109	75	5.00	.66	20	200	6.0	500	40	4.50	1.00	75				20	A	NTLB	
NKT123	75	5.00	.66	20	200	6.0	500	40	4.50	1.00	75				20	A	NTLB	
NKT126	75	5.00	.66	20	200	6.0	500	40	4.50	1.00	75				20	A	NTLB	
NKT129	75	5.00	.66	30	200	6.0	400	100	4.50	1.00	75				20	Δ	NTLB	
V6/4R	75	5.00	.67	6.0		6.0	30		4.5	1.0	50				25	A	NTLB	
V6/4RJ	75	5.50	.40	6.0			30		4.5	1.0	50				25	A	NTLB	
NKT154/25	75	6.00	.66	6.0	6.00		10	2.0	4.50	1.00	50							NTLB
NKT164	75	6.00	.66	6.0	6.00		10	2.0	4.50	1.00	50							NTLB
NKT164/25	75	6.00	.66	9.0	9.00		25	5.00	4.5	1.0	50							NTLB
2G301	75	7.20	.80	15	15	10	50	10	6.0	1.0	60				8.5	A	TIIB	
2G303	75	7.20	.80	15	25	10	100	10	6.0	1.0	40				8.5	A	TIIB	
NKT153/25	75	8.00	.66	6.0	6.00		10	2.0	4.50	1.00	80							NTLB
NKT163	75	8.00	.66	6.0	6.00		10	2.0	4.50	1.00	80							NTLB
NKT163/25	75	8.00	.66	9.0	9.00		25	5.00	4.5	1.0	80				25	A	NTLB	
TR49	75*	9.00	.40	15	10	5.0	300	1.00	5.00	1.00	90	120	800	8.0	15	A	SING	
NKT102	75	10.0	.66	20	200	6.0	500	40	4.50	1.00	100				20	A	NTLB	
NKT105	75	10.0	.66	20	200	6.0	500	40	4.50	1.00	100				20	A	NTLB	
NKT108	75	10.0	.66	20	200	6.0	500	40	4.50	1.00	100				20	A	NTLB	
NKT122	75	10.0	.66	20	200	6.0	500	40	4.50	1.00	100				20	A	NTLB	
NKT128	75	10.0	.66	20	200	6.0	500	40	4.50	1.00	100				20	A	NTLB	
V6/8R	75	10.0	.67	6.0		6.0	30		4.5	1.0	80				25	A	NTLB	
V6/8RJ	75	10.0	.40	6.0			30		4.5	1.0	80				25	A	NTLB	
NKT152	75	11.0	.66	6.0	6.00		10	2.0	4.50	1.00	100							NTLB
NKT162	75	11.0	.66	6.0	6.00		10	2.0	4.50	1.00	100							NTLB
2G302	75	14.4	.80	15	15	10	50	10	6.0	1.0	130				8.5	A	TIIB	
2G304	75	14.4	.80	15	25	10	100	10	6.0	1.0	50				8.5	A	TIIB	
NKT151	75	15.0	.66	6.0	6.00		10	2.0	4.50	1.00	150							NTLB
NKT104	75	18.0	.66	20	200	6.0	500	40	4.50	1.00	150				20	A	NTLB	
NKT107	75	18.0	.66	20	200	6.0	500	40	4.50	1.00	150				20	A	NTLB	
NKT121	75	18.0	.66	20	200	6.0	500	40	4.50	1.00	150				20	A	NTLB	

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(disposti in ordine della massima dissipazione al collettore (mW) e della massima frequenza (MHz))

TIPO	MAX. DISS. COLL. in aria libera a 25° C Pc (mW)	Frequenza di Taglio fob (MHz)	Resistenza Termica in aria libera (°C/mW)	M.A.S.S. T.E.M.P.	VALORI LIMITE 25°C				Ico Max. con Vca max. a 25°C (µA)	PARAMETRI "h" CARATTERISTICI 25°C						Cob (pF)	STRUTTURA	COSTRUTTORE
					BVcbo (V)	BVcEs (V)	BVcBo (V)	Ic (Am)		POLARIZZAZIONE			EMETTITORE COMUNE					
										Vca (V)	Ic (mA)	Ic/IcE (mA)	h <sub>oe</sub> (ohm)	h <sub>ie</sub> (ohm)	h <sub>re</sub> (<10 <sup>-4</sup> )			
					Δ-Vce	Δ-Ic	Δ-Ib	h <sub>fe</sub>		h <sub>oe</sub>	h <sub>ie</sub>	h <sub>re</sub>						
NKT124	75	18.0	.68	J	20	20	6.0	500	40	4.5	1.0	150			20	A	NTLB	
NKT127	75	18.0	.66	J	20	20	6.0	500	40	4.5	1.0	150			20	A	NTLB	
2N1749	75	115	1.0	S	40	40	1.0	75	100	6.0	1.0	45	b.13	26	1.3	ME	SPR	
2N2799	75	120	1.0	S	30	15	2.0	100		.30	1.0	50			2.5	D	SPR	
2N1499B	75	150	1.0	S	30	20	2.0	100	3.0	.30	1.0	40			3.0	D	SPR	
2N2797	75	235	1.0	S	40	20	2.5	100		.30	1.0	80			2.5	D	SPR	
2N2798	75	235	1.0	S	60	25	2.0	100		.30	1.0	50			2.5	D	SPR	
2N695	75	250	1.0	J	15	15	3.5	50	3.0	.30	1.0	40			3.3	ME	MOTA	
2N695	75	250	1.0	J	15	15	3.5	50	100	.30	1.0	25			3.3	ME	NONE	
2N502A	75	260	1.0	J	30	30	.50	50	20	10	2.0	65			1.0	MD	PHIL	
2N502A	75	260	1.0	J	30	30	.50	50	20	10	2.0	65			1.0	MD	PHIL	
2SA403	75	280		J	20	15	.20	10	10	6.0	1.0	10			1.5	ME	NECJ	
2SA239	75	300	.80	J	20		.20	5.0		6.0	2.0	10			1.5	ME	TOSJ	
2SA240	75	300	.80	J	20		.20	5.0		6.0	2.0	20			1.5	ME	TOSJ	
2SA54	75	400		J	20	15	.20	10	5.0	6.0	2.0	12			1.2	ME	NECJ	
2SA404	75	400		J	20	15	.20	10	6.0	6.0	1.0	12			1.2	ME	NECJ	
GMO378	75	400	1.0	J	18		.30	50	5.0	8.0	4.5	20			1.8	ME	TIB	
TI316	75	400	1.0	S	15	10	.30	50	5.0	6.0	4.0	35			3.0	D	TII	
2N2795	75	450	1.0	S	25	15	2.5	100		.30	1.0	100			2.5	D	SPR	
2N2796	75	450	1.0	S	20	12	2.0	100		.30	1.0	60			2.5	D	SPR	
2N2416	75	500	1.0	J	15	10	.50	20	5.0	6.0	2.0	30			1.2	ME	TII	
TI400	75	500	1.0	S	18		.30	50	5.0	6.0	2.0	40				E	TH	
TI401	75	500	1.0	S	18		.30	50	5.0	6.0	2.0	20				E	TH	
TI402	75	500	1.0	S	18		.30	50	5.0	6.0	2.0	20				E	TH	
TI403	75	500	1.0	S	18		.30	50	5.0	6.0	2.0	35				E	TH	
TI3032	75	500	1.0	A	25	15	.20	100	10	12	6.0	25			4.0	E	TH	
2N2996	75	550	1.0	S	15	10	.30	50	100	6.0	4.0	200			3.0	DM	TII	
2N2415	75	560	1.0	J	15	10	.50	20	5.0	6.0	2.0	45			1.2	ME	TH	
2N2997	75	600	1.0	S	30	15	.30	50	100	12	4.0	200			1.8	DM	TH	
2SA229	75	750	.80	J	20		.20	5.0		6.0	2.0	10			1.0	ME	TOSJ	
2SA230	75	750	.80	J	20		.20	5.0		6.0	2.0	10			1.0	ME	TOSJ	
2N700	75	800	1.0	J	25	20	.20	50	2.0	6.0	2.0	10	b	17	1.1	ME	MOTA	
2N700/18	75	800	1.0	J	25	20	.20	50	2.0	6.0	2.0	10	b	17	1.1	ME	SYL	
2N700A	75	800	1.0	J	25	25	.20	100	100	6.0	2.0	4.0			1.4	ME	TIB	
2N700A/18	75	800	1.0	J	25	25	.20	100	100	6.0	2.0	4.0			1.4	ME	TII	
GMO290	75	800	1.0	J	20	15	.30	50	5.0	12	3.0	20			1.2	ME	TII	
2N2998	75	900	1.0	S	15	12	.30	20	100	6.0	3.0	200			1.7	DM	SPR	
2N3267	75	900	1.0	S	15	8.0	.30	20	5.0	6.0	3.0	15			1.7	DM	SPR	
2N3320	75	900	1.0	J	10		100	5.0	5.0	5.0	2.0	50			3.0	MD	SPR	
2N3321	75	900	1.0	J	7.0		100	5.0	5.0	3.0	1.0	100			3.5	MD	SPR	
2N3322	75	900	1.0	J	7.0		100	5.0	5.0	3.0	1.0	30			3.5	MD	SPR	
2N700A	75	1000	1.0	S	25	25	.20	100	100	6.0	2.0	4.0	b	30	1.4	ME	MOTA	
TI3024	75	1500	1.0	S	15	7.0	.30	50	6.0	8.0	3.0	30			1.7	DM	TII	
2N2999	75	1600	1.0	S	15	7.0	.30	20	10	8.0	3.0	100			1.7	DM	TII	
2SB44	80				25		12	50	10	6.0	1.0	110			1.1	ME	TOSJ	
2SB384	80		.75	J	20		.50	10	10	6.0	1.0	60			4.0	A	ATEI	
2SB385	80		.75	J	20	15		30	10	1.0	5.0	50			4.0	A	YECJ	
AF146	80		1.0	J	30		.50	10	12	6.0	1.0	85			3.3	D	ATEI	
AF147	80		1.0	J	24	24	.50	10	12	6.0	1.0	70			3.3	D	ATEI	
AF148	80		1.0	J	24	24	.50	10	12	6.0	1.0	80			3.3	D	ATEI	
AF149	80		1.0	J	24	24	.50	10	12	6.0	1.0	225			3.3	D	ATEI	
AF150	80		1.0	J	24	24	.50	10	12	6.0	1.0	70			3.3	D	ATEI	
AF168	80		1.0	J	30	30	.50	10	12	6.0	1.0	85			4.0	D	ATEI	
AF169	80		1.0	J	24	24	.50	10	12	6.0	1.0	70			3.3	D	ATEI	
AE170	80		1.0	J	24	24	.50	10	12	6.0	1.0	80			3.3	D	ATEI	
AF171	80		1.0	J	24	24	.50	10	12	6.0	1.0	225			3.3	D	ATEI	
AF172	80		1.0	J	24	24	.50	10	12	6.0	1.0	70			3.3	D	ATEI	
2N1266	80	1.00		J		10				6.0	1.0	48			11			
2SB40	80	1.00	.60	J	40		12	100	14	1.0	100	100			35	A	TOSJ	
2SB47	80	1.00	.60	J	25		12	50	14	6.0	1.0	150	b.20	30	2.5	A	TOSJ	
CK65	80	1.00	.75	J	45	24	12	100	5.0	6.0	1.0	45	25	1800	5.0	FA	RAYN	
CK65A	80	1.00	.75	J	45	24	12	100	5.0	6.0	1.0	45	25	1800	5.0	FA	RAYN	
CK22	80	1.20	.75	J	20	15	12	100	10	6.0	1.0	90	36	3600	7.0	FA	RAYN	
CK22A	80	1.20	.75	J	20	15	12	100	10	6.0	1.0	90	36	3600	7.0	FA	RAYN	
CK66	80	1.20	.75	J	35	20	12	100	5.0	6.0	1.0	90	36	3600	7.0	FA	RAYN	
CK66A	80	1.20	.75	J	35	20	12	100	5.0	6.0	1.0	90	36	3600	7.0	FA	RAYN	
AC107	80	2.00	.60	J		15		5.0	5.0	6.0	1.0	70			14	D	PHUN	
2N1673	80	5.00	.75	#	35		.50	10	50	9.0	1.0	100			3.0	D	SYL	
2SA31	80	5.00	#S		12			10	10	9.0	1.0	50			9.5	A	KOKJ	
2SA36	80	5.00	#S		16			15	6.0	9.0	1.0	50			9.5	A	KOKJ	

# DATI TECNICI DEI TRANSISTORI PNP AL GERMANIO

(disposti in ordine della massima dissipazione al collettore (mW) e della massima frequenza (MHz) 8)

TIPO	MAX. DISS. COLL. in aria libera a 25° C P <sub>c</sub> (mW)	Frequenza di Taglio f <sub>αb</sub> (MHz)	Resistenza Termica in aria libera T <sub>θjA</sub> (°C/mW)	M A S S A T E M P	VALORI LIMITE 25°C				PARAMETRI "h" CARATTERISTICI 25°C							Cob (pF)	STRUTTURA	COSTRUTTORE
					BV <sub>ceo</sub> (V)	BV <sub>ceo</sub> / ΔBV <sub>ces</sub> % (V)	BV <sub>ceo</sub> (V)	I <sub>c</sub> (mA)	POLARIZZAZIONE			EMETTITORE COMUNE						
									V <sub>ce</sub> / ΔV <sub>ce</sub> (V)	I <sub>c</sub> / ΔI <sub>c</sub> (mA)	h <sub>ie</sub> (Ω)	h <sub>oe</sub> (Ω)	h <sub>ie</sub> (Ω)	h <sub>re</sub> (Ω)				
															h <sub>fe</sub> (1/f <sub>β</sub> )			
2SA40	80	5.00	#S	25		9.0	50	6.00	6.0	1.00	65				10	A	KOKJ	
2SA296	80	5.00	#J	15			15	5.00	6.0	1.0	45				13	A	YECJ	
2SA325	80	5.00	#J						1.00	800	60↑				13	A	YECJ	
2SA189	80	6.00	.75#J	12		.50	15	10	6.0	1.0	65				10	A	FCAY	
2N409	80	6.80	.66#A	13		.50	15	100	9.00	1.0	48				9.5	A	RCA	
2N410	80	6.80	.66#A	13		.50	15	100	9.0	1.0	48				9.5	A	BCA	
2SA12	80	8.00		16		.50	15	6.0	6.0	1.0	55				10	A	HITJ	
2SA139	80	8.00	.75#J	30		10	50	5.0	1.00	500	70↑				10	ΔΔ	FCAY	
2N140	80	10.0	#A	16	9.0	.50	15	10	9.00	800	75Δ				9.5	ΔΔ	BCA	
2N219	80	10.0	#A	16	9.0	.50	15	10	9.00	600	75Δ				9.5	ΔΔ	RCA	
2SA30	80	10.0	#S	12			10	100	9.00	600	75				9.5	A	KOKJ	
2SA35	80	10.0	#S	16			15	6.00	9.0	600	75				9.5	A	KOKJ	
2SA188	80	10.0	.75#J	12		.50	15	10	6.0	1.0	65				10	A	FCAY	
2SA297	80	10.0	#J	16			15	5.00	6.00	1.0	65				13	A	YECJ	
2SA326	80	10.0	#J						1.00	800	60↑				13	A	YECJ	
2SA385	80	10.0	.60#J	16		10	10	120	6.00	1.0	120				8.0	A	MATJ	
2SA15	80	12.0	#A	16		.50	15	6.0	6.00	1.0	60				10	A	HITJ	
CK4	80	12.0	.75#J	25		12	100	5.00	2.00	1.0Δ	40				12	FA	RAYN	
CK4A	80	12.0	.75#A	25		12	100	5.00	1.50	40Δ	60↑				12	FA	RAYN	
2SA64	80	15.0	#S	16		9.0	20	6.00	6.0	1.00	65				10	A	KOKJ	
2SA138	80	15.0	.75#J	20	15	10	25	5.0	1.00	100	70↑				10	ΔΔ	FCAY	
2N411	80	16.5	.66#A	13		.50	15	10	9.00	60	75				9.5	A	RCA	
2N412	80	16.5	.66#A	13		.50	15	10	9.00	60	75				9.5	A	RCA	
CK28	80	17.0	.75#J	30	12	20	400	4.00	2.50	1.0Δ	80↑				14	FA	RAYN	
CK28A	80	17.0	.75#J	30	12	20	400	4.00	2.50	1.0Δ	80↑				14	FA	RAYN	
2SA111	80	20.0	#S	20		10	200	9.0	9.0	1.00	40				1.7	D	KOKJ	
2SA112	80	20.0	#S	20		10	200	9.0	9.0	1.00	45				1.7	D	KOKJ	
2SA272	80	20.0	#J	9.0		.50	10	100	3.0	1.0	45				3.0	D	RÖKJ	
GET895	80*	20.0	.75#J	20	20		200		2.50		60↑Δ						PHIN	
2SA356	80	25.0	#S	9.0		.50	10	15	3.00	1.0	80				2.8	D	HITJ	
2SA383	80	25.0	.75#S	25		10	120		6.0	1.0	40				2.5	D	YECJ	
2N274	80	30.0	.50#A	35		.50	10	8.00	120	1.0	60				1.7	A	RCA	
2N274	80	30.0	.55#A	35		.50	10	8.00	120	1.0	60				1.7	A	RCA	
2N370	80	30.0	.62#A	20		1.5	10	200	120	1.0	60				D	RCA		
2N370/33	80	30.0	1.5#J	24		.50	10	100	120	1.00	107			30	D	SYL		
2N371	80	30.0	.62#A	20		.50	10	200	120	1.0	60			D	RCA			
2N371/33	80	30.0	.50#J	24		.50	10	100	120	1.00	97			30	D	SYL		
2N372	80	30.0	.62#A	20		.50	10	200	120	1.0	60			D	RCA			
2N372/33	80	30.0	.50#J	24		.50	10	100	120	1.00	97			30	D	SYL		
2N373	80	30.0	.750	25		.50	10	8.00	120	1.0	60		1.5	2200	1.6	D	RCA	
2N374	80	30.0	.750	25		.50	10	8.00	120	1.00	60		1.0	2600		D	RCA	
2N544/33	80	30.0	1.0#J	24		1.0	10	160	120	1.00	97			30	D	SYL		
2SA43	80	30.0	#S	35		10	160		9.0	1.00	60				1.7	D	KOKJ	
2SA109	80	30.0	#S	20		10	200		9.0	1.00	60				1.7	D	KOKJ	
2SA110	80	30.0	#S	20		10	200		9.0	1.00	60				1.7	D	KOKJ	
2SA269	80	30.0	#J	20		.50	10	100	6.0	1.0	45				2.2	D	RÖKJ	
2SA271	80	30.0	#J	9.0		.50	10	100	3.0	1.0	60				3.0	D	KOKJ	
2SA274	80	30.0	#J	34		1.0	10	7.00	12	1.0	40				2.0	D	KOKJ	
2SA357	80	30.0		9.0		.50	10	15	3.00	1.0	80				2.8	D	HITJ	
2SA382	80	30.0	.75#S	25		10	120		6.0	1.0	55				2.5	D	HITJ	
2N1425	80	33.0	.60#A	24		.50	10	120	120	1.0	50				2.0	D	RCA	
2N1426	80	33.0	.60#A	24		.50	10	120	120	1.0	130				D	RCA		
2N1526	80	33.0	.40#A	24		.50	10	160	120	1.0	130				2.0	D	RCA	
2N1526/33	80	33.0	.40#A	24		.50	10	160	120	1.0	130				2.0	D	SYL	
2N1527	80	33.0	.40#A	24		.50	10	160	120	1.0	130				2.0	D	RCA	
2SA298	80	35.0	.75#J	40			10	8.00	6.00	1.0	55				2.5	D	YECJ	
2SA327	80	35.0	#J						1.00	800	30↑				2.5	D	YECJ	
2SA351	80	35.0		20		.50	10	10	9.00	1.0	70				2.5	D	HITJ	
2SA353	80	35.0		25		.50	10	10	9.00	1.0	70				2.5	D	HITJ	
2SA354	80	35.0		25		.50	10	10	9.00	1.0	70				2.5	D	HITJ	
2SA381	80	35.0	.75#S	25		10	120		6.0	1.0	50				2.5	D	YECJ	
2SA268	80	40.0	#J	20		.50	10	100	6.0	1.0	45				2.2	D	KOKJ	
2SA273	80	40.0	#J	34		1.0	10	7.00	12	1.0	45				2.0	D	KOKJ	
2SA352	80	40.0		20		.50	10	10	9.00	1.0	75				2.5	D	HITJ	
2SA355	80	40.0		25		1.0	10	10	9.00	1.0	90				2.5	D	HITJ	
2SA384	80	40.0	.75#S	25		10	120		6.0	1.0	60				2.5	D	YECJ	
2N640	80	42.0	.75#A	34		1.0	10	5.00	120	1.00	60				1.6	D	GIC	
2N641	80	42.0	.75#A	34		1.0	10	7.00	120	1.00	60				1.6	D	GIC	
2N642	80	42.0	.75#A	34		1.0	10	7.00	120	1.00	60				1.6	D	GIC	

(continua)

# DATI TECNICI DEI TRANSISTORI PNP AL GERMANIO

disposti in ordine della massima dissipazione al collettore (mW) e della massima frequenza (MHz)

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TIPO	MAX. DISS. COLL. in aria libera a 25° C Pc (mW)	Frequenza di Togliolo f <sub>αβ</sub> (MHz)	Resistenza Termica in aria libera (°C/mW)	M.A.S.S.	VALORI LIMITE 25°C				I <sub>CEO</sub> Max. con V <sub>CE</sub> max. a 25°C (μA)	PARAMETRI "h" CARATTERISTICI 25°C						Cob (pF)	STRUTTURA	COSTRUZIONE
					B <sub>VCEO</sub> (V)	B <sub>VCEO</sub> - B <sub>VCEsat</sub> (V)	B <sub>VCEO</sub> (V)	I <sub>C</sub> (mA)		POLARIZZAZIONE			EMETTITORE COMUNE					
										V <sub>CE</sub> - V <sub>CE</sub> (V)	I <sub>C</sub> - I <sub>C</sub> (mA)	h <sub>FE</sub> (hFE)	hoe (ohm)	hie (ohm)	hre (×10 <sup>4</sup> )			
2N1639/33	120	45.0	.50#A	34		1.0	10	7.00	120	1.0	75				2.0	D	SYL	
2N604	120	50.0	.50#A	30	20	2.0		8.00	1.00	.50Δ	40†Δ	b.25		2.0	D	NONE		
2N644	120	50.0	.33#A	30	20	2.0	100	100	7.00	5.00	45†			2.0	D	GIC		
2N1225	120	50.0	.63#A	40		.50	10	50	120	1.50	20Δ			3.0	D	PHIN		
2N604	120	60.0*	.50#A	30	20	2.0		25	1.00	5.00	90†	b.25	27	3.0	D	GIC		
SFT316	120	70.0*	.50#J	20		.50	10	150	6.00	1.00	120			1.8	D	CSF		
2N645	120	75.0	.33#A	30	20	2.0	100	100	7.00	5.00	45†			2.0	D	GIC		
2SA279	120*	80.0	.250J	30		.50	30	6.00	2.00	100	100†			3.5	AD	MATJ		
2SA280	120*	80.0	.250J	30		.50	30	6.00	2.00	10	125†			1.5	AD	MATJ		
2SA281	120*	80.0	.250J	50		.50	30	6.00	2.00	10	125†			1.5	AD	MATJ		
A1383	120	80.0	.45#J	32	32	1.2	30	3.00	10	1.0	20†Δ				PD	PHIN		
A1384	120	80.0	.45#J	32	32	1.2	30	3.00	6.0	1.0	20†Δ				PD	PHIN		
SFT357P	120	80.0	.50#J	30	10	.50	10	20	9.00	1.00	180			2.0	D	CSF		
SFT357	120	85.0	.50#J	20		.50	10	150	6.00	1.00	120			1.8	D	CSF		
SFT354	120	87.0	.50#J	20		.50	10	150	6.00	1.00	120			1.8	D	CSF		
2N384	120	100	.62#A	40	40	.50	10	120	120	1.5	60		400	2.0	D	RCA		
2N384/33	120	100	#S	40	40	.50	10	50	120	1.50	60		400	3.0	D	SYL		
2N1225	120	100	.62#A	40	40	.50	10	120	120	1.5	60			2.0	D	PHIN		
2N1285	120	100	#S	40		2.5	10	120	120	1.50	100			3.0	D	RCA		
2N1396	120	100	.62#A	40	40	.50	10	120	120	1.5	90			2.0	D	PHIN		
2SA301	120*	100	.250J	30		.50	30	6.00	1.0	10	125†				AD	MATJ		
2SA344	120*	100	.250J	30		.50	30	6.00	2.00	10	200			4.0	AD	MATJ		
AF185	120	110	.45#J	32	32	1.2	30	3.0	10	1.0	40†Δ			3.5	AD	PHIN		
SFT358	120	110	.50#J	20		.50	10	150	6.00	1.00	120			1.8	D	CSF		
2N1023	120	120	.62#A	40	40	.50	10	120	120	1.5	60			2.0	D	RCA		
2N1066	120	120	.62#A	40	40	.50	10	120	120	1.5	60			2.0	D	PHIN		
2N1397	120	120	.62#A	40	40	.50	10	120	120	1.5	90			2.0	D	PHIN		
AF182	120	120	.50#J	15		.50	10	15	120	5.00	70Δ			2.0	D	NPC		
SFT163	120	120	.50#S	15		.50	10	15	120	5.00	70Δ			3.0	D	CSF		
2N279	125	.30	.40#J	30		.50	10	120	2.00	.50	30	23	2200	9.0	AD	PHIN		
2N280	125	.30	.40#J	30		.50	10	120	2.00	3.00	47	80	800	5.0	AD	PHIN		
2SB170	125	.30	.40#J	30		.50	10	120	2.0	.50	30	15	1800	4.5	A	MATJ		
GTE1	125	.30	.40#J	30		.50	10	120	2.0	3.00	47	80	800	5.0	A	ROSG		
GTE2	125	.30	.40#J	30		.50	10	250	6.00	10	22				A	ROSG		
GTV	125	.30	.40#J	30		1.0	10	12	2.0	.500	30	23	2200	9.0	A	ROSG		
2N281	125	.35	.40#J	16	16	.10	125	100	5.40	10	70†				AD	PHIN		
2N284	125	.35	.40#J	30		.50	10	120	2.00	.60	30	23	2200	9.0	AD	NTLB		
2N284A	125	.35	.40#J	30		.50	10	120	2.00	3.00	47	80	800	5.0	AD	NTLB		
NKT243	125	.35	Δ	32		.50	250		1.5	80	60†				A	NTLB		
NKT244	125	.35	Δ	30		.50	10		6.0	1.0	50				A	PHIN		
NKT247	125	.35	Δ	60		.50	250		1.5	80	60				A	PHIN		
OC70	125	.45	.40#J	30	30	.50	10	5.0	2.0	.50	30	23	2300	9.0	A	MATJ		
2N283	125	.50	.40#J	32		.50	30	10	4.5	100	.50	40			A	MATJ		
2SB171	125	.50	.40#J	30		.50	10	120	2.0	3.0	50	75	800	4.5	A	PHIN		
2SB173	125	.50	.40#J	20		.50	10	120	6.00	1.0	50				A	MATJ		
OC71	125	.50	.40#J	30	30	.50	10	5.0	2.0	3.0	47	80	800	5.4	A	PHIN		
2SB175	125	.60	.40#J	30		.50	10	120	2.0	3.0	90	80	1300	5.5	A	NECJ		
2SB161	125	.65	.40#J	30		.50	100	100	1.00	5.00	50†			30	A	MATJ		
NKT246	125	.70	Δ	15		.75	75		6.0	1.0	75				A	NTLB		
OC75	125	.75	.40#J	30	30	.50	50	5.0	2.0	3.0	90				A	PHIN		
OC75N	125	.75	.40#J	30	30	.50	50	5.0	2.00	3.0	90				A	PHIN		
2SB163	125	.80	.40#J	30		.50	100	100	1.00	5.00	70†			30	A	NECJ		
2SB177	125	.90	.40#J	60		.50	10	125	120		300	65†			A	MATJ		
ASV14	125	.90	.40#J	80	80	.50	250	100	.700	1250	25†Δ				A	INTG		
OC72	125	.90	.40#J	32		.50	10	125	10	.70	80	50†			A	PHIN		
OC76	125	.90	.40#J	32	32	.50	10	125	10	1.0	250	45†			A	PHIN		
OC77	125	.90	.40#J	60	60	.50	10	125	10	1.0	250	52†			A	PHIN		
OC307	125	.90	.40#J	32	32	.50	250	150	.700	1250	25†Δ				AD	INTG		
OC308	125	.90	.40#J	35	35	.50	250	100	.700	800	50†				AD	INTG		
OC309	125	.90	.40#J	60	60	.50	250	100	.700	1250	25†Δ				AD	INTG		
2N65	125	1.00	.60#J	20		.50	16	100	10	5.0	1.0	75			35	A	ETC	
2SB54	125	1.00	.60#J	20		.50	12	50	14	6.0	1.0	150	b.20	30	2.5	35	A	TOSJ
2SB165	125	1.00	.40#J	30		.50	10	100	100	1.00	500	100†			30	A	NECJ	
2SB172	125	1.00	.40#J	32		.50	10	125	120	1.00	1000	50†				A	MATJ	
2SB101	125	1.20	.40#J	30		.50	10	50	10	6.00	1.0	60	b.30	30	2.5	A	NECJ	
2SB103	125	1.20	.40#J	30		.50	10	100	10	1.00	500	70†				A	NECJ	
2SB176	125	1.40	.40#J	32		.50	10	125	120	1.00	1000	100†				A	MATJ	
2SB98	125	1.50	Δ	30		.50	50	100	6.00	1.0	120			30	A	NECJ		
2SB99	125	1.50	Δ	30		.50	50	100	6.00	1.0	120			30	A	NECJ		

# DATI TECNICI DEI TRANSISTORI PNP AL GERMANIO

disposti in ordine della massima dissipazione al collettore (mW) e della massima frequenza (MHz)

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TIPO	MAX. DISS. COLL. in aria libera a 25° C P <sub>c</sub> (mW)	Frequenza di Taglio f <sub>β</sub> (MHz)	Rest. stanza Termica in aria libera T <sub>amb</sub> (°C/mW)	M.A.S.S. T.E.M.P.	VALORI LIMITE 25°C					I <sub>co</sub> Max. con V <sub>ce</sub> max. a 25°C (μA)	PARAMETRI "h" CARATTERISTICI 25°C							Cob (pF)	STRUTTURA	COSTRUZIONE
					B <sub>V</sub> co (V)	B <sub>V</sub> ceo (V)	B <sub>V</sub> vero (V)	I <sub>c</sub> (mA)	POLARIZZAZIONE			EMETTITORE COMUNE								
									V <sub>ce</sub> - V <sub>ce</sub> (V)		I <sub>e</sub> - I <sub>c</sub> (mA)	h <sub>ie</sub> †-h <sub>FE</sub>	h <sub>oe</sub> (umho)	h <sub>ie</sub> (ohm)	h <sub>re</sub> (×10 <sup>-4</sup> )					
																∅-B <sub>V</sub> ces - ∅-B <sub>V</sub> cer (V)	∅-I <sub>c</sub> - Δ-I <sub>b</sub> (mA)			
NKT133	125	3,00	.40∅J		15	15	25	25	1,0∅	30								NTLB		
NKT144	125	3,00Δ	.40∅J		15	15∅	12	25	4,0	4,5	1,0	80	1,0	65	7,0	20	A∅	NTLB		
2SA173	125	4,00	.40∅J		20		10	50	8,0	1,0∅	10	60†				13	A	NECJ		
ASY28	125	4,08Δ	.40∅J		30	25	5,0	100	3,0∅	0,0	20	30†Δ				16∅	A	PHIN		
ASY31	125	4,08Δ	.40∅J		25	20	20	200	3,0∅							15	AΔ	PHIN		
2SA26	125	6,00	.40∅J		20		50	12∅		6,0	1,0	60				15	A	NECJ		
ASY29	125	6,08Δ	.40∅J		25	20	5,0	100	3,0∅	0,0	20	50†Δ				16∅	A	PHIN		
ASY32	125	6,08Δ	.40∅J		25	20	20	200	3,0∅							15	AΔ	VALG		
NKT143	125	6,00	.40∅J		15	15∅	12	25	4,0	4,5	1,0	80	1,0	65	7,0	20	A	NTLB		
2N617	125	7,50	.48#J		15	10	150	6,0	9,0	.50	15					7,0	A	ETC		
2N505	125	8,00	.50#J		40	40	40	250	1,0∅	1,0∅	40					10	A	ETC		
2SA171	125	8,00	.40∅J		20	10	50	8,0	1,0∅	1,0	60†					12	A	NECJ		
NKT132	125	8,00	.40∅J		15	15	25	25		1,0∅	40					10	A	NTLB		
2SA167	125	9,00	.40∅J		20	18	10	50	8,0	6,0∅	1,0	70	b 80	28	13	20	A	NECJ		
NKT142	125	11,0	.40∅J		15	15∅	12	25	4,0	4,5	1,0	100	1,0	65	7,0	15	A	NTLB		
2SA169	125	15,0	.40∅J		20		10	50	8,0	1,0∅	10	70†				11	A	NECJ		
NKT131	125	15,0	.40∅J		15	15	25	25		1,0∅	50					10	A	NTLB		
NKT141	125	18,0	.40∅J		15	15∅	12	25	4,0	4,5	1,0	150	1,0	65	7,0	20	A	NTLB		
2SA78	125	25,0	.40∅J		40	2,0	400	12	6,0	1,0	70					3,5	D	TOSJ		
2SA248	125	25,0	.40∅J		40	2,0	200	12	1,0	200	50†					3,5	D	TOSJ		
2SA75	125	30,0	.40∅J		20	.50	5,0	50	3,0	20	70					2,5	D	TOSJ		
2SA358	125	45,0	.40∅J		75	1,0	50	12	9,0∅	1,0	90					2,5	D	HITJ		
2SA74	125	70,0	.40∅J		50	.50	5,0	50	6,0	5,0	70					2,5	D	TOSJ		
2N2084	125	100§	.50#J		40	40§	1,0	10	8,0∅	6,0	1,0	100†	b 650	65		2,0	AD†	PHIN		
2N2188	125	125	.48#J		40	40∅	2,0	30	50	6,0∅	2,0∅	90	18	1800	1,8	1,6	ME∅	TII		
2N2190	125	125	.48#J		60	60∅	2,0	30	50	6,0∅	2,0∅	90	18	1800	1,8	1,6	ME∅	TII		
2N2189	125	150	.48#J		40	40∅	2,0	30	50	6,0∅	2,0∅	135	18	1800	1,8	1,6	ME∅	TII		
2N2191	125	150	.48#J		60	60∅	2,0	30	50	6,0∅	2,0∅	135	18	1800	1,8	1,6	ME∅	TII		
2SA401	125	230	.40#J		30	.50	4,0	30	6,0∅	1,0	70					3,0	ME	HITJ		
SYL3613	125	400Δ	.60#S		25	20∅	2,0	100	2,0∅	6,0∅	2,0∅	50Δ	180∅	2K∅		2,0	ME	SYL		
2N111	130	3,00	.40#J		30		20	200		6,0	1,0	25				12	F	ETC		
2N111A	130	3,00	.40#J		30		20	200		6,0	1,0	25				12	F	ETC		
2N112	130	5,00	.40#J		30		20	200		6,0	1,0	30				12	F	ETC		
2N112A	130	5,00	.40#J		30		20	200		6,0	1,0	30				12	F	ETC		
2N113	130	10,0	.40#J		30		20	200		6,0	1,0	45				12	F	ETC		
2N271	130	10,0	.40#J		30		20	200		6,0	1,0	45				12	F	ETC		
2N271A	130	10,0	.40#J		30		20	200		6,0	1,0	45				12	F	ETC		
2N114	130	20,0	.40#J		30		20	200		6,0	1,0	75				12	F	ETC		
ACY22	133*	1,10§	.#J		20	20		500		300	50							PHIN		
2N428	133	10,0Δ	.45#S		30	12	20	25	.35∅	10Δ	20†Δ					2,0∅		GIC		
2N1097	140		#J			16		100	16	20∅	34†							GESY		
2N1098	140		#J			16		100	16	20∅	34†							GESY		
2N1144	140		.25#J		16	16§		100	16	5,0	1,0	55				4,0	A	GESY		
2N1145	140		.25#J		16	16§		100	16	5,0	1,0	45				4,0	A	GESY		
2N3074	140		.32∅J		25	25§		20	10∅	5,0∅	14	14†Δ				3,0	AD∅	PHIN		
2N3075	140		.32∅J		30	30§		20	10∅	6,0∅	12	27†Δ				3,0	AD∅	PHIN		
2SB48	140	2,50	*J		16		100	16	1,0∅	20	42†	.60	28	8,0		25	A†	SONY		
2SB49	140	3,00	*J		16		100	16	1,0∅	20	83†	.60	28	8,0		25	A†	SONY		
2SB50	140	3,50	*J		16		100	16	1,0∅	20	131†	.60	28	8,0		25	A†	SONY		
AF180	140	250	.32∅J		25	25		20	10∅	5,0∅	14	14				3,0	AD∅	PHIN		
AF181	140	350	.32∅J		30	30		20	10∅	6,0∅	12	27†Δ				1,8	AD∅	PHIN		
2N138	150		.40#J		20		150	20	1,0∅	50∅	44						A	ETC		
2N185	150		*A				150	14	1,0∅	50∅	80						A	ETC		
2N217	150		.66∅J		25	25	12	70	14	1,0∅	50∅	75					AΔ	TII		
2N238	150		*A		20		150	20	1,0∅	50∅	45†						A	ETC		
2N311	150		.50#S		15	15	6,0	60	5,0∅	10	50†	b, 50					AΔ	ETC		
2N407	150		.33∅A		20	18	2,5	70	14∅	1,0∅	50∅	65					A	RCA		
2N408	150		.33∅A		20	18	2,5	70	14∅	1,0∅	50∅	65					A	RCA		
2N415	150		.40#J			12∅	20	50	2,0	6,0	1,0					30	F	ETC		
2N680	150				20			50	14			35						ETC		
2N725	150				15			50				20†Δ						ME	SYL	
2N781	150		.50#J		15	15	2,5	200	3,0∅	.22∅	10∅	25					E	SYL		
2N782	150		.50#J		12	12	1,0	200	3,0∅	.25∅	10∅	20					E	SYL		
2N827	150		.50#S		20	20∅	4,0	100		.30∅	10∅	100†Δ				9∅	Δ	MOTA		
2N838	150		.50#S		30	30∅	2,5	100		.30∅	10∅	30†Δ				4∅	Δ	MOTA		
2N934	150		.40#J		13	13	1,0	200	6,0	.30∅	40∅	60				8,0	E	RCA		
2N1408	150		.50#S		50		10	25	5,0	1,0	25					25	†	GIC		
2N1646	150		#J		15	12∅	2,0	50	100	.40∅	10∅	20†Δ	b 1,5		5,0		†	SYL		
AF2N1646	150		.50#J		15	12∅	2,0	50	100	.50∅	10∅	20†Δ				5∅	ME	NONE		

# DATI TECNICI DEI TRANSISTORI PNP AL GERMANIO

disposti in ordine della massima dissipazione al collettore (mW) e della massima frequenza (MHz)

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TIPO	MAX. DISS. COLL. in aria libera a 25° C Pc (mW)	Frequenza di Taglio fob (MHz)	Resistenza Termica in aria libera (°C/mw) P	VALORI LIMITE 25°C				Icso Max. con Vce max. a 25°C (μA)	PARAMETRI "h" CARATTERISTICHE 25 °C						Cob (pF)	STRUTTURA	COSTRUZIONE	
				BVcbo (V)	BVcbo - BVces (V)	BVebo (V)	Ic (mA)		POLARIZZAZIONE			EMETTITORE COMUNE						
									Vce Δ-lc (V)	Ic Δ-lc (mA)	hfe f-TRE	hoe (umho)	hie (ohm)	hre (X10 <sup>9</sup> )				
2N1853	150		.40 #J	18		2.0	100	4.2	.400	6.00	30	Δ					RCΔ	
2N1853	150		.40 #J	18		2.0	100	4.2	.400	6.00	30	Δ					MOTA	
2N1853/18	150		.40 #J	18		2.0	100	4.2	.400	6.00	30	Δ					SYL	
2N1960	150		.50 #J	15	15	2.5	200	100	.220	1.00	25	Δ				EA	SYL	
2N1960/46	150		.50 #J	15	15	2.5	200	100	.220	1.00	25	Δ				EA	SYL	
2N1961	150		.50 #J	12	12	1.0	200	100	.250	1.00	20	Δ				EA	SYL	
2N1961/46	150		.50 #J	12	12	1.0	200	100	.250	1.00	20	Δ				EA	SYL	
2N2860	150		.50 #J	18	7.0	2.0	150	8.0	.400	4.00	40	Δ				Δ	TOSJ	
2SA282	150		∅	18		12	200	8.0	.500	1000	80	↑			10	Δ	TOSSJ	
2SA283	150		∅	18		12	200	8.0	.500	1000	80	↑			10	Δ	TOSSJ	
2SA284	150		∅	18		12	200	8.0	.500	1000	80	↑			10	Δ	TOSSJ	
2SB32	150		#S		20	50	140	9.0	1.00	40						A	KOKJ	
2SB33	150		#S	20		2.5	50	140	1.00	50	70	↑				A	KOKJ	
2SB37	150		#S	35		12	50	140	1.00	50	70	↑				A	KOKJ	
2SB43A	150			45	45 §	12	150	14	1.00	500	70	↑				A	TOSJ	
2SB56A	150			45	45 §	12	150	14	1.00	500	80	↑				A	TOSJ	
2SB77	150			25		12	100	14	1.5	50	85					A	HITJ	
2SB77A	150			45		12	100	25	1.5	50	85					A	HITJ	
2SB155	150			16		2.5	300	14	4.00	1.0	29		10.7	875	1.6	A	HITJ	
2SB156	150			16		2.5	300	14	1.0	150	70					A	HITJ	
2SB156A	150			20		6.0	300	14	1.0	150	70					A	HITJ	
2SB185	150		∅	25		25	50	15	1.50	30	45					A	TSAJ	
2SB186	150		∅	25		25	50	15	1.50	30	170					A	TSAJ	
2SB187	150		∅	25		25	50	15	1.50	30	100					A	TSAJ	
2SB188	150		∅	25		25	50	15								A	TSAJ	
2SB199	150		#S	12		2.5	300	14	1.00	150	80	↑				A	KOKJ	
2SB299	150		.40 #S	30	15 §	25	150	100	1.00	1500	65	↑				Δ	YECJ	
2SB328	150		#J	15		300	10	1.00	200	80	↑					A	NECJ	
2SB329	150		#J	15		300	10	1.00	200	150	↑					A	NECJ	
2SB350	150			25	25 §	50	20	1.50	300	100						A	TSAJ	
2SB364	150			20	20 §	12	400		.500	1000	90	↑				A	TOSJ	
2SB365	150			20	20 §	12	400		.500	1000	60	↑				A	TOSJ	
GT34N	150		.50 #S	100		10	200	450	4.50	1.0	18		b.50	40	4.0	Δ	TOSJ	
GT74	150		.50 #S	25		10	25	5.00	1.0	75	b.50	40	5.0	35	A	↑	GIC	
GT81	150		.50 #S	25		10	25	5.00	1.0	75	b.50	40	5.0	35	A		GIC	
GT82	150		.50 #S	25		10	25	5.00	1.0	150	b.50	40	8.0	35	A		GIC	
GT109	150		.50 #S	25		10	200	25	5.00	1.0	110	b.50	40	6.0	A		GIC	
GT222	150		.50 #S	12		200	20	5.00	1.0	20	b.50	40		35	A		GIC	
GT2694	150		.40 #J	25	15	10	25	5.00	1.0	80	b5.0			15	FA		GIC	
GT2696	150		.40 #J	25	15	10	25	5.00	1.0	70	b5.0			15	FA		GIC	
GT2883	150		.40 #J	9.0	6.00	9.0	50	6.00	1.0	50				20	FA		GIC	
GT2885	150		.40 #J	9.0	6.00	7.0	50	6.00	1.0	200				20	FA		GIC	
GT2887	150		.40 #J	9.0	6.00	7.0	50	6.00	1.0	250				20	FA		GIC	
MA909	1500		.50 #J	75	75	35	200	50	.350	5.00	20			A	TO5		MOTA	
MA910	1500		.50 #J	90	90.	45	200	50	.350	5.00	20	Δ		A	TO5		MOTA	
SYL2189	150		#J	12		1.0	50	3.00	.500	100	20	Δ				ME	SYL	
TI397	150		.40 #J	35	350	2.0	50	3.00	6.00	.500	35	↑		2.0	ME		TIH	
TI398	150		.40 #J	35	350	2.0	50	5.00	6.00	.500	30	↑		2.0	ME		TIH	
TI399	150		.40 #J	35	350	2.0	50	5.00	6.00	.500	20	↑		2.0	ME		ITI	
TR-C70	150		.36 #J	16		12	10	6.0	1.0	30						A	ITC	
TR-C71	150		.36 #J	12		9.0	10	6.0	1.0	60						A	ITC	
TR-C72	150		.36 #J	20		16	20	5.4	1.0	100						A	ITC	
2N34	150	.40	.330	40		100	50	6.00	1.00	75	30	2500	6.0			A	ETC	
2N237	150	.50	#	45		20	10	6.0	1.0	50						A	ETC	
2N272	150	.50	.75 J	20	24	10	100	10	5.0	1.0	120			40	A		ETC	
2N465	150	.50Δ	.40 #S	40	40 #	12	20	6.0	1.0	27Δ	b1	45	60			Δ	GIC	
2N466	150	.50Δ	.50 #S	35	25 §	12	20	6.0	1.0	54Δ	b1	45	67			Δ	GIC	
2N519A	150	.50Δ	.50 #S	25	10	10	25	.250	200	35	↑		b.70	30	3.0	14	Δ	ETC
AS49	150	.50Δ	.300	100	20	40	100	120	1.00	75						Δ	STCB	
ASY51	150	.50Δ	.300	60	40	40	150	120	1.00	54	34					Δ	STCB	
ASY52	150	.50Δ	.300	60	20	40	100	120	1.00	75						Δ	STCB	
ASY71	150	.50Δ	.300	100	35	40	100	120	1.00	75						Δ	STCB	
2N398	150	.60Δ	.45 #S	105	55	75	50	6.00	1.00	20Δ				25			Δ	MOTA
2N467	150	.60Δ	.40 #S	35	35	12	20	6.0	1.0	110Δ	b	17.2	1115	2.9	40	A		GIC
2N405	150	.65	.33A	20	18	2.5	35	140	6.00	1.0	35	17.2	1115	2.9	40	A		RCA
2N406	150	.65	.33A	20	18	2.5	35	140	6.00	1.0	35	17.2	1115	2.9	40	A		RCA
2N104	150	.70	.400A	30		12	50	100	6.00	1.00	44	23	1667	5.0	40	A	↑	RCA
2N180	150	.70	.330	30		30	10	6.0	1.0	60				25	A		ETC	
2N181	150	.70	.200	30		30	10	6.0	1.0	60				25	A		ETC	

# DATI TECNICI DEI TRANSISTORI PNP AL GERMANIO

disposti in ordine della massima dissipazione al collettore (mW) e della massima frequenza (MHz)

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TIPO	MAX. DISS. COLL. in aria libera a 25° C Pc (mW)	Frequenza di Taglio f <sub>αβ</sub> (MHz)	Resistenza Termica in aria libera r <sub>th(j-a)</sub> (°C/mW)	M A S S I M A T E M P E	VALORI LIMITE 25°C				I <sub>ceo</sub> Max. con V <sub>cs</sub> max. a 25°C (μA)	PARAMETRI "h" CARATTERISTICI 25°C							Cob (pF)	STRUTTURA	COSTRUTTORE
					BV <sub>ceo</sub> (V)	BV <sub>ceo</sub> - BV <sub>ces</sub> (V)	BV <sub>eso</sub> (V)	I <sub>c</sub> (mA)		POLARIZZAZIONE			EMETTITORE COMUNE						
										V <sub>ce</sub> - V <sub>ce</sub> (V)	I <sub>e</sub> - I <sub>c</sub> (mA)	h <sub>ie</sub> - h <sub>fe</sub>	h <sub>oe</sub> (μmho)	h <sub>ie</sub> (ohm)	h <sub>re</sub> (×10 <sup>-4</sup> )	Cob (pF)			
2N215	150	.70	.40Δ		30	12	50	100	6.0	1.0	44	23	1667	5.0	40	A†	RCA		
2N367	150	.70	.40Δ		30	10	50	100	5.0	1.0	15					A	ETC		
2N1129	150	.75	.40#J		25	250	25	6.0	100	165†	b1.6	10	5.5	125	ΔΔ		ETC		
2N1130	150	.75	.40#J		30	250	25	6.0	100	110†	b1.6	10	5.5	125	ΔΔ		ETC		
2N422	150	.80	.40#J		35	20	12	100	15	6.0	1.0	50	19	2500	5.5	30	FA	ETC	
2N563	150	.80	.40#S		30	10	25	5.0	1.0	25	b.70	35	2.5	30			ETC		
2N564	150	.80	.50#S		30	10	25	5.0	1.0	25	b.70	35	2.5	30			ETC		
2N45	150	1.00	.50#		45	15	50	10	5.0	1.0	12					A	ETC		
2N273	150	1.00	.75 J		20	30	10	10	2.5	500	20					A	ETC		
2N368	150	1.00	.40#S		30	10	50	5.0	1.0	34						A	ETC		
2N398A	150	1.00	.50#J		105	105	50	200	50	3.5	5.0	65†					MOTA		
2N422	150	1.00Δ	.40#S		35	12	20	6.0	1.0	30Δ	b1.7	45†		60†			NONE		
2N665	150	1.00	.40#S		30	10	25	5.0	1.0	55	b.55	30	3.5	30			ETC		
2N566	150	1.00	.50#S		30	10	25	5.0	1.0	55	b.55	30	3.5	30			ETC		
2SB55	150	1.00	.30#J		60	12	50	20	1.0	50	80†					A	TOSJ		
2SB56	150	1.00	.30#J		25	12	50	14	1.0	50	80†					A	TOSJ		
2SB59	150	1.00	.40#J		30	20	10	100	15	1.0	50	70†				ΔΔ	FCAJ		
2SB60	150	1.00	.40#J		20	2.5	50	14	6.0	1.0	60	b.30	30	3.0		ΔΔ	FCAJ		
2SB60A	150	1.00	.40#J		20	20	2.5	50	14	1.0	50	70†				A	FCAJ		
2SB61	150	1.00	#S		30	50	100	6.0	1.0	50				50		A	KOKJ		
2SB65	150	1.00	#S		30	12	100	15	6.0	1.0	65			35		A	KOKJ		
2SB84	150	1.00	.30#J		25	12	50	14	6.0	1.0	150	b.20	30	2.5		A	TOSJ		
2SB291	150	1.00	#J		30	25	12	150	10	6.0	1.0	100	30	4200	6.0	35	A	TOSJ	
2SB292	150	1.00	.30#J		30	25	12	15	0.1	1.0	0.5	85				A	TOSJ		
TF66	150	1.00	.30#J		16	12	10	30	18	.50	5.0	45	135	500	8.0	40	A	SIHG	
TF66/30	150	1.00	.30#J		32	24	10	300	18	.50	5.0	45	135	500	8.0	40	A	SIHG	
TF66/60	150	1.00	.30#J		64	45	16	300	18	.50	5.0	45	135	500	8.0	40	A	SIHG	
2SB293	150	1.20	.40#J		18	13		250	10	1.0	150	70†				A	YECJ		
2SB294	150	1.20	.40#J		18	13		250	10	4.0	1.0	36	18	1000	2.9		A	YECJ	
AC116	150	1.20	.20#J		30	12	100	15	6.0	4.0	90					A	TFKG		
AC123	150	1.20	.20#J		45	12	100	15	6.0	4.0	90					A	TFKG		
2N1128	150	1.25	.40#J		25	250	20	10	2.0	120	b.50	14	1.8	45		A	ETC		
2N369	150	1.30	.40#S		30	10	50	5.0	1.0	95						A	ETC		
2SB266	150	1.30	#J		25	150	100	6.0	1.0	67	23	1800	3.7			A	YECJ		
2SB267	150	1.30	#J		25	150	100	1.0	150	70†						A	YECJ		
2SB269	150	1.30	.40#J		25	150	100	6.0	1.0	67	23	2000	4.0			Δ	YECJ		
2SB299	150	1.30	#J		150	150	150	1.0	150	65†						A	YECJ		
2G398	150	1.40	.40#J		105	60	40	200	30	5.0	1.0	79	b.53	34	5.0	15	A†	TADI	
2N568	150	1.50	.50#S		30	10	25	5.0	1.0	100	b.40	30	4.0	30			ETC		
2SB66	150	1.50	#S		30	12	70	14	6.0	1.0	70	27	2200	5.0	32	A	HITJ		
AC151	150*	1.50	.30#J		32	24	10	200	25	1.0	2.0	110	130	1000	14	27	Δ	SIHG	
AC151r	150*	1.50	.30#J		32	24	10	200	100	1.0	2.0	80	100Δ	750Δ	9Δ	27	Δ	SIHG	
ACY23	150*	1.50	.30#J		32	30	16	200	100	5.0	1.0	100	40	3000	7.0	27	A†	SIHG	
ACY32	150*	1.50	.30#J		32	30	16	200	100	5.0	1.0	100	40	3000	7.0	27	Δ	SIHG	
TR45	150	1.50	.40#J		45	5.0	400	16	1.0	200	20†					20		ITC	
2N569	150	2.00	.40#S		30	10	25	5.0	1.0	150	b.40	30	5.0	30			ETC		
2N570	150	2.00	.50#S		30	10	25	5.0	1.0	150	b.40	30	5.0	30			ETC		
2SB75	150	2.00	.25		12	100	14	6.0	1.0	55	17.5	1750	3.0			A	HITJ		
2SB75A	150	2.00	.40#S		45	12	100	25	6.0	1.0	55	17.5	1750	3.0			A	HITJ	
2SB439	150	2.00	.30#J		30	20	12	150	14	6.0	1.0	130	45	4000	8.0	30	A†	TOSJ	
2SB440	150	2.00	.30#J		30	20	12	150	14	6.0	1.0	130	45	4000	8.0	30	A†	TOSJ	
GT122	150	2.00	.50#S		25	10	25	5.0	1.0	100	b.50	40	5.0	35	ΔΔ		GIC		
TR650	150	2.00	.40#J		45	25	25	400	15	6.0	1.0	40				20	A	ITC	
TR653	150	2.00	.40#J		30	15	25	400	15	6.0	1.0	40				20	A	ITC	
TR44	150	2.20	.40#J		45	5.0	400	16	1.0	200	30†					20		ITC	
2G322	150	2.50	.27#J		16	16	100	16	5.0	1.0	50	1400				27	Δ	TADI	
2N413A	150	2.50	.40#J		30	200					30							ETC	
2N529	150	2.50	.60#S		15	25	5.0	1.0	10Δ	18	b1.0	28	3.0	14	A		ETC		
2N1352	150	2.50Δ	.40#J		30	20	15	200	5.0	6.0	70†			18	A		ITC		
TR43	150	2.50	.40#J		45	5.0	400	16	1.0	200	45†					20		ITC	
TR320	150	2.50Δ	.40#J		30	5.0	200	16	1.0	200	50					20		ITC	
TR323	150	2.50	.40#J		16	5.0	200	16	1.0	200	75					20		ITC	
TR722	150	2.50Δ	.40#J		30	5.0	200	20	6.0	1.0	22					20		ITC	
2G308	150	3.00	.43#J		15	10	100	10	6.0	1.0	50					12	Δ	TIIB	
2N481	150	3.00	.40#J		12	20	10	6.0	1.0	50						14	FA	ELBR	
2N520	150	3.00Δ	.60#S		15	10	25	4.0	1.0	40	b.70	30	6.0	14	ΔΔ		ETC		
2N520A	150	3.00Δ	.50#S		25	10	25	2.5	200	100†	b.70	30	6.0	14	ΔΔ		ETC		
2N530	150	3.00	.60#S		15	25	5.0	1.0	10Δ	23	b.90	28	3.0	14	A		ETC		
2N571	150	3.00	.40#S		30	10	25	5.0	1.0	200	b.40	30	10	30			ETC		



# DATI TECNICI DEI TRANSISTORI DI POTENZA PNP AL GERMANIO

disposti in ordine della massima resistenza termica decrescente

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TIPO	MAX. RESISTENZA TERMICA Giunzione-involucro $\theta_{j-c}$ (°C/W)	MAX. DISS. COLL. in aria libera a 25°C P. (W)	TEMPERATURA MASSIMA	VALORI LIMITE 25°C					I <sub>CEO</sub> MAX. con V <sub>CB</sub> max. a 25°C (mA)	h <sub>FE</sub> †-h <sub>FE</sub>				f <sub>αE</sub> †-f <sub>αB</sub> (kHz)	MAX. RESISTENZA SATURAZIONE (Ω)	t <sub>r</sub> †-t <sub>f</sub> †-t <sub>r</sub> (μsec.)	STRUTTURA	
				I <sub>c</sub> Ø-I <sub>E</sub>	I <sub>B</sub> Ø-I <sub>E</sub>	BV <sub>CEO</sub> (V)	BV <sub>EBO</sub> (V)	BV <sub>CE0</sub> ØBV <sub>CE0</sub> (V)		POLARIZZAZIONE		MIN. Ø-TIP	MAX. Ø-TIP					
										V <sub>CB</sub> Ø-V <sub>CE</sub>	I <sub>c</sub> Ø-I <sub>B</sub> Δ-I <sub>E</sub>							
				(A)	(A)	(V)	(V)	(V)		(V)	(A)	(A)	(A)					(A)
2SB296	3400	ØJ	ØJ	.15	30	12	25	.010	1.0	.05	40	130	1000†		A			
2SB292A	2400	ØJ	ØJ	.15	60	12	60	1.00	.05	.40	130	1000†		A				
2SB200	1000	ØJ	ØJ	.40	32	12	32	.04	1.0	.15	30	150	500†		A			
2SB200A	1000	ØJ	ØJ	.40	45	12	45	.04	1.00	.15	30	150	500†		A			
2SB202	1000	ØJ	ØJ	.40	32	12		.04	1.0	.15	70	290	500†		A			
2SB203	800	#J	#J	20	40			5.0	1.50	15	20	400	30	.07	A			
2SB204	800	#J	#J	30	40			300	5.0	1.50	15	20	400	30	.05	A		
2SB205	800	#J	#J	20	80			600	5.0	1.50	15	20	400	30	.07	A		
2SB206	800	#J	#J	30	80			600	5.0	1.50	15	20	400	30	.05	A		
2SB207	800	#J	#J	20	100			750	5.0	1.50	15	20	400	30	.07	A		
2SB208	800	#J	#J	30	100			750	5.0	1.50	15	20	400	30	.05	A		
2SB209	800	#J	#J	20	40			300	5.0	1.50	15	20	400	30	.07	A		
2SB210	800	#J	#J	30	40			300	5.0	1.50	15	20	400	30	.05	A		
2SB211	800	#J	#J	20	80			600	5.0	1.50	15	20	400	30	.07	A		
2SB212	800	#J	#J	30	80			600	5.0	1.50	15	20	400	30	.05	A		
2SB213	800	#J	#J	20	100			750	5.0	1.50	15	20	400	30	.07	A		
2SB214	800	#J	#J	30	100			750	5.0	1.50	15	20	400	30	.05	A		
2SB27	500	ØJ	ØJ	.50	15	10	15	.800	1.50	.20	18	46	7.0		A			
2SB28	500	ØJ	ØJ	.50	15	10	15	.80	1.50	.20	35	96	7.0		A			
2SB29	500	ØJ	ØJ	.50	15	10	15	.80	1.50	.20	72	186	7.0		A			
2SB142	400	#J	#J	1.0	30	12	30	1.0	1.50	1.0	12	31	7.0		A			
2SB143	400	#J	#J	1.0	30	12	30	1.0	1.50	1.0	23	59	7.0		A			
2SB144	400	#J	#J	1.0	30	12	30	1.0	1.50	1.0	45	119	7.0		A			
2SB140	350	#J	#J	1.5	40	12	40	.60	1.50	1.0	62	89	7.0		A			
2SB141	350	#J	#J	1.5	60	12	60	.60	1.50	1.0	62	89	7.0		A			
2SB147	350	#J	#J	1.5	60	12	60	.600	1.50	.20	28	119	7.0		A			
2SB325	330	1.8#J	ØJ	.60	.60	120	50	100	.020	2.00	.05	20	250	1.3	ΔΔ			
2N528	30	1.0#J	ØJ	1.0	.50	40	40		.50	1.00	.50	20	470	8M\$	.25	.400	ΔΔ	
2N528	30	1.0#J	ØJ	1.0	.50	40	40	40#	.05	1.00	.50	20			.50	.500	ΔΔ	
2SB16A	250	1.8ØJ	ØJ	.60		20			.020	2.00	.05	20	500				A	
2SB17A	250	1.8ØJ	ØJ	.60		40			.020	2.00	.05	20	500				A	
2SB18A	250	1.8ØJ	ØJ	.60		80			.020	2.00	.05	20	500				A	
2N2282	150	ØJ	ØJ	3.0		60		30	.050	1.0	.50	30	75	2500†	.30		DA	
2N2283	150	ØJ	ØJ	3.0		100		60	.050	1.0	.50	30	75	2500†	.30		DA	
2N2284	150	ØJ	ØJ	3.0		200		100	.050	1.0	.50	30	75	2500†	.30		DA	
2N2467	150	ØJ	ØJ	3.0		60	1.5	60	.100	1.00	.50	30	90		.40		A	
2N2468	150	ØJ	ØJ	3.0		100	1.5	100	.100	1.00	.50	30	90		.40		A	
2N2469	150	ØJ	ØJ	3.0		200	1.5	200	.150	1.0	.50	30	90		.40		A	
2N2564/5	15	5ØJ	ØJ	3.0	1.0	40	10	30	.65	1.0	3.0	20	60	7.0	.25		A	
2N2565/5	15	5ØJ	ØJ	3.0	1.0	60	10	40	.65	1.0	3.0	20	60	7.0	.25		A	
2N2566/5	15	5ØJ	ØJ	3.0	1.0	80	10	50	.65	1.0	3.0	20	60	7.0	.25		A	
2N2567/5	15	5ØJ	ØJ	3.0	1.0	100	10	60	.65	1.0	3.0	20	60	7.0	.25		A	
2SB106	15	.70J	ØJ	.50		30	10		.10	2.00	.20	20	120	500†			A	
2SB109	15	.70J	ØJ	.50		40	10		.10	2.00	.20	15	120	500†			A	
2SB109A	15	.70J	ØJ	.50		60	10		.10	2.00	.20	15	120	500†			A	
2SB109B	15	.70J	ØJ	.50		80	10		.10	2.00	.20	15	120	500†			A	
2SB367	15	4ØJ	#J	1.0		25	12		.100	1.50	.50Δ	600					A	
2SB368	15	4ØJ	#J	1.0		45	12		.100	1.50	.50Δ	1100					A	
TF78/30	15†	2.70J	ØJ	.60		32	10	24	30	.700	.05Δ	30	150	700†		6.00	ΔΔ	
TF78/60	15†	2.70J	ØJ	.60		64	16	45	30	.700	.05Δ	30	150	700†		6.00	ΔΔ	
TF78	13	2ØJ	ØJ	.60		16	5.0	16	.03	.300	.60	20	150	700	60		ΔΔ	
2N101/13	12.5	1.0ØJ	ØJ	1.5		30	15	15	5.0#	2.00	.50	11		.60	2.0		A	
2N1645	12.5	1.0ØJ	ØJ	.30			1.0	20	.0150	100	.20	20	350	600M\$	5.0	3700	Δ	
2SB255	12.50	ØJ	ØJ	.60		35	10		.500	1.5	.20	30	120				A	
2SB256	12.50	ØJ	ØJ	.60		35	10		.50	1.5	.20	30	250				A	
2SB180	11.8	5.5ØJ	ØJ	.50		40	12	300	1.0	1.50	.50	20	150				A	
2SB181	11.8	5.5ØJ	ØJ	.50		60	12	400	1.0	1.50	.50	20	150				A	
2N1172	10	1.0#J	ØJ	1.50	.25	40	20	30	.20	2.0	.10	30	90		17	1.0	3.0	A
2N1183	10	7.50#A	ØJ	3.0	.50	45	20	20		2.00	.40	20	60	500†Δ	1.3	2.0		ΔΔ
2N1183	10	7.50#A	ØJ	45	20	20			.25	2.00	.40	20	60	.50Δ	.75			A
2N1183A	10	7.50#S	ØJ	3.0	.50	60	20	30		2.00	.40	20	60	500†Δ	1.3	2.0		ΔΔ
2N1183A	10	7.50#S	ØJ	60	20	30			.25	2.00	.40	20	60	.50Δ	.75			A
2N1183B	10	7.50#A	ØJ	3.0	.50	80	20	40		2.00	.40	20	60	500†Δ	1.3	2.0		ΔΔ
2N1183B	10	7.50#A	ØJ	80	20	40			.25	2.00	.40	20	60	.50Δ	.75			A
2N1184	10	7.50#A	ØJ	3.0	.50	45	20	20		2.00	.40	40	120	500†Δ	1.3	2.0		ΔΔ
2N1184	10	7.50#A	ØJ	45	20	20			.25	2.00	.40	40	120	.50Δ	.75			A
2N1184A	10	7.50#A	ØJ	3.0	.50	60	20	30		2.00	.40	40	120	500†Δ	1.3	2.0		ΔΔ
2N1184A	10	7.50#A	ØJ	60	20	30			.25	2.00	.40	40	120	.50Δ	.75			A
2N1184B	10	7.50#A	ØJ	3.0	.50	80	20	40		2.00	.40	40	120	500†Δ	1.3	2.0		ΔΔ
2N1184B	10	7.50#A	ØJ	80	20	40			.25	2.00	.40	40	120	.50Δ	.75			A

# DATI TECNICI DEI TRANSISTORI DI POTENZA PNP AL GERMANIO

disposti in ordine della massima resistenza termica decrescente

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TIPO	MAX. RESISTENZA TERMICA Giunzione-involucro $\theta_{jc}$ (°C/W)	MAX. DISS. COLL. in aria libera a 25°C P. (W)	VALORI LIMITE 25°C					$I_{cbo}$ MAX. con $V_{cb}$ max. a 25°C (mA)	$h_{FE}$ $f_{-h_{FE}}$				$f_{\alpha E}$ (kHz)	MAX. RESISTENZA SATURAZIONE ( $\Omega$ )	$t_r$ $\phi_{-t_d} + t_r$ ( $\mu$ sec.)	STRUTTURA	
			$I_c$ $\phi_{-I_E}$	$I_b$ $\phi_{-I_E}$	BV <sub>CBO</sub> (V)	BV <sub>EBO</sub> (V)	BV <sub>CE0</sub> $\phi_{-BV_{CE0}}$		POLARIZZAZIONE		MIN. $\phi_{-TIP}$	MAX. $\phi_{-TIP}$					
									V <sub>CB</sub> $\phi_{-V_{CE}}$	I <sub>c</sub> $\phi_{-I_E}$ $\Delta$ -I <sub>c</sub>							
																	$\phi_{-f_{\alpha E}}$
(A)	(A)	(V)	(V)	(V)	(V)	(A)	(A)	(A)	(A)								
2SB296	3400	2	.15		30	12	25	.010	1.0	.05	40	130	1000†		A	A	
2SB292A	2400	2	.15		60	12	60	.010	1.00	.05	40	130			A	A	
2SB200	1000	2	.40		32	12	32	.04	1.0	.15	30	150	500†		A	A	
2SB200A	1000	2	.40		45	12	45‡	.040	1.00	.15	30	150	500†		A	A	
2SB202	1000	2	.40		32	12		.04	1.0	.15	70	290	500†		A	A	
2SB203	800	#J	2.0		40		300	5.0	1.50	15	20	400	30	.07	A	A	
2SB204	800	#J	3.0		40		300	5.0	1.50	15	20	400	30	.05	A	A	
2SB205	800	#J	2.0		80		600	5.0	1.50	15	20	400	30	.07	A	A	
2SB206	800	#J	3.0		80		600	5.0	1.50	15	20	400	30	.05	A	A	
2SB207	800	#J	2.0		100		750	5.0	1.50	15	20	400	30	.07	A	A	
2SB208	800	#J	3.0		100		750	5.0	1.50	15	20	400	30	.05	A	A	
2SB209	800	#J	2.0		40		300	5.0	1.50	15	20	400	30	.07	A	A	
2SB210	800	#J	3.0		40		300	5.0	1.50	15	20	400	30	.05	A	A	
2SB211	800	#J	2.0		80		600	5.0	1.50	15	20	400	30	.07	A	A	
2SB212	800	#J	3.0		80		600	5.0	1.50	15	20	400	30	.05	A	A	
2SB213	800	#J	2.0		100		750	5.0	1.50	15	20	400	30	.07	A	A	
2SB214	800	#J	3.0		100		750	5.0	1.50	15	20	400	30	.05	A	A	
2SB27	500	2	.50		15	10	15	.800	1.50	.20	18	46	7.0		A	A	
2SB28	500	2	.50		15	10	15	.80	1.50	.20	35	96	7.0		A	A	
2SB29	500	2	.50		15	10	15	.80	1.50	.20	72	186	7.0		A	A	
2SB142	400	#J	1.0		30	12	30	1.0	1.50	1.0	12	31	7.0		A	A	
2SB143	400	#J	1.0		30	12	30	1.0	1.50	1.0	23	59	7.0		A	A	
2SB144	400	#J	1.0		30	12	30	1.0	1.50	1.0	45	119	7.0		A	A	
2SB140	350	#J	1.5		40	12	40	.60	1.50	1.0	62	89	7.0		A	A	
2SB141	350	#J	1.5		60	12	60	.60	1.50	1.0	62	89	7.0		A	A	
2SB147	350	#J	1.5		60	12	60	.600	1.50	.20	28	119	7.0		A	A	
2SB325	330	1.8#J	3.0	.60	120	50	100‡	.020	2.00	.05	20	250		1.3	A	ΔΔ	
2N528	30	1.0#J	1.0	.50	40	40		.50	1.00	.50	20	470	8M‡	.25	.400	ΔΔ	
2N528	30	1.0#S	1.0	.50	40	40	40#	.05	1.00	.50	20			.50	.500	ΔΔ	
2SB16A	250	1.800J	.60		20			.020	2.00	.05	20	500			A	A	
2SB17A	250	1.800J	.60		40			.020	2.00	.05	20	500			A	A	
2SB18A	250	1.800J	.60		80			.020	2.00	.05	20	500			A	A	
2N2282	150	2	3.0		60		30	.050	1.0	.50	30	75	2500†	.30		DA	
2N2283	150	2	3.0		100		60	.050	1.0	.50	30	75	2500†	.30		DA	
2N2284	150	2	3.0		200		100	.050	1.0	.50	30	75	2500†	.30		DA	
2N2467	150	2	3.0		60	1.5	60	.100	1.00	.50	30	90		.40			
2N2468	150	2	3.0		100	1.5	100	.100	1.00	.50	30	90		.40			
2N2469	150	2	3.0		200	1.5	200	.150	1.0	.50	30	90		.40			
2N2564/5	15	50#J	3.0	1.0	40	10	30	.65	1.0	3.0	20	60	7.0	.25		A	
2N2565/5	15	50#J	3.0	1.0	60	10	40	.65	1.0	3.0	20	60	7.0	.25		A	
2N2566/5	15	50#J	3.0	1.0	80	10	50	.65	1.0	3.0	20	60	7.0	.25		A	
2N2567/5	15	50#J	3.0	1.0	100	10	60	.65	1.0	3.0	20	60	7.0	.25		A	
2SB106	15	.700J	.50		30	10		.10	2.00	.20	20	120	500†		A	A	
2SB109	15	.700J	.50		40	10		.10	2.00	.20	15	120	500†		A	A	
2SB109A	15	.700J	.50		60	10		.10	2.00	.20	15	120	500†		A	A	
2SB109B	15	.700J	.50		80	10		.10	2.00	.20	15	120	500†		A	A	
2SB367	15	40#J	1.0		25	12		.100	1.50	.50Δ	600				A	A	
2SB368	15	40#J	1.0		45	12		.100	1.50	.50Δ	1100				A	A	
TF78/30	15†	2.700J	.60		32	10	24	30	.700	.05Δ	30	150	700†		6.00	ΔΔ	
TF78/60	15†	2.700J	.60		64	16	45	30	.700	.05Δ	30	150	700†		6.00	ΔΔ	
TF78	13	200J	.60		16	5.0	16	.03	.300	.60	20	150	700	60		ΔΔ	
2N101/13	12.5	1.00J	1.5		30	15	15‡	5.0#	2.00	.50	11		.60	2.0		A	
2N1645	12.5	1.0#J	.30			1.0	20	.0150	100	.20	20	350	600M‡	5.0	3700	D	
2SB255	12.50	2	.60		35	10		.500	1.5	.20	30	120					
2SB256	12.50	2	.60		35	10		.50	1.5	.20	30	250					
2SB180	11.8	5.500J	.50		40	12	300	1.0	1.50	.50	20	150					
2SB181	11.8	5.500J	.50		60	12	400	1.0	1.50	.50	20	150					
2N1172	10	1.0#J	1.50	.25	40	20	30	.20	2.0	.10	30	90		17	1.0	3.0	A
2N1183	10	7.50#A	3.0	.50	45	20	20		2.00	.40	20	60	500†Δ	1.3	2.0		ΔΔ
2N1183	10	7.50#S			45	20	20	.25	2.00	.40	20	60	.50Δ	.75			
2N1183A	10	7.50#A	3.0	.50	60	20	30		2.00	.40	20	60	500†Δ	1.3	2.0		ΔΔ
2N1183A	10	7.50#S			60	20	30	.25	2.00	.40	20	60	.50Δ	.75			
2N1183B	10	7.50#A	3.0	.50	80	20	40		2.00	.40	20	60	500†Δ	1.3	2.0		ΔΔ
2N1183B	10	7.50#S			80	20	40	.25	2.00	.40	20	60	.50Δ	.75			
2N1184	10	7.50#A	3.0	.50	45	20	20		2.00	.40	40	120	500†Δ	1.3	2.0		ΔΔ
2N1184	10	7.50#S			45	20	20	.25	2.00	.40	40	120	.50Δ	.75			
2N1184A	10	7.50#A	3.0	.50	60	20	30		2.00	.40	40	120	500†Δ	1.3	2.0		ΔΔ
2N1184A	10	7.50#S			60	20	30	.25	2.00	.40	40	120	.50Δ	.75			
2N1184B	10	7.50#A	3.0	.50	80	20	40		2.00	.40	40	120	500†Δ	1.3	2.0		ΔΔ

# DATI TECNICI DEI TRANSISTORI DI POTENZA PNP AL GERMANIO

disposti in ordine della massima resistenza termica decrescente

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TIPO	MAX. RESI- STENZA TER- MICA Giu- nzione- involucro $\theta_{j\epsilon}$	MAX. DISS. COLL. in aria libera a 25°C P.	MAXIMA TEMPERATURA	VALORI LIMITE 25°C							$I_{CBO}$ MAX. con $V_{CE}$ max. a 25°C  (mA)	h <sub>FE</sub> f <sub>h<sub>FE</sub></sub>				f <sub>az</sub>	MAX. RESI- STENZA SATU- RAZIONE  ( $\Omega$ )	$t_r$ $t_r + t_f$ S-t <sub>s</sub> #-t <sub>r</sub>  ( $\mu$ sec.)	STRUTTURA		
				$I_C$	$I_B$	$V_{CBO}$	$V_{EBO}$	$V_{CE(s)}$	$V_{CE(s)}$	POLARIZZAZIONE		MIN.	MAX.	f <sub>az</sub>	MAX. RESI- STENZA SATU- RAZIONE  ( $\Omega$ )					$t_r$ $t_r + t_f$ S-t <sub>s</sub> #-t <sub>r</sub>  ( $\mu$ sec.)	
				$\varnothing - I_E$	$\varnothing - I_E$			$\varnothing - V_{CE}$	$I_C$	$\varnothing - I_B$											$\Delta I_E$
				(A)	(A)	(V)	(V)	(V)	(V)	(A)		(A)	$\varnothing$ -TIP	$\varnothing$ -TIP	(kHz)					( $\Omega$ )	( $\mu$ sec.)
2N2835	4.0	16 #	1.0	.20	32	10	32			0.0	1.0Δ	30	10			A					
AD139	4.0	130#J	3.0	.20	32	10	32			0.0	1.0	30	10			A					
AD148	4.0*	110#J	2.0	.40	32	10	32			1.00	1.0	30	10			A					
PAD750	4.0	6.00J	1.70	.05	70	1.5	60	.600		10	.60Δ	40	60M		.20	AD					
TF80/30	4.00	600J	2.5		32	10	30	.10		6.00	.30	450	250†		12	AD					
TF80/60	4.00	600J	2.5		64	20	45	.10		6.0	.30	450	250†		12	AD					
TF80/80	4.00	600J	3.0		80	20	80	.23		1.30	1.5	15	300		250†	AD					
2N1038-1	3.8	1.0#J	3.0	1.0	40	20	30	.65		.500	1.0	20	60		7.0	.25	AD				
2N1039-1	3.8	1.0#J	3.0	1.0	60	20	40	.65		.500	1.0	20	60		7.0	.25	AD				
2N1040-1	3.8	1.0#J	3.0	1.0	80	20	50	.65		.500	1.0	20	60		7.0	.25	AD				
2N1041-1	3.8	1.0#J	3.0	1.0	100	20	60	.65		.500	1.0	20	60		7.0	.25	AD				
2N1042-1	3.8	1.0#J	3.0	1.0	40	20	30	.65		1.00	3.0	20	60		7.0	.25	AD				
2N1042-2	3.8	1.0#J	3.0	1.0	40	20	30	.65		1.00	3.0	20	60		7.0	.25	AD				
2N1043-1	3.8	1.0#J	3.0	1.0	60	20	40	.65		1.00	3.0	20	60		7.0	.25	AD				
2N1043-2	3.8	1.0#J	3.0	1.0	60	20	40	.65		1.00	3.0	20	60		7.0	.25	AD				
2N1044-1	3.8	1.0#J	3.0	1.0	80	20	50	.65		1.00	3.0	20	60		7.0	.25	AD				
2N1044-2	3.8	1.0#J	3.0	1.0	80	20	50	.65		1.00	3.0	20	60		7.0	.25	AD				
2N1045-1	3.8	1.0#J	3.0	1.0	100	20	60	.65		1.00	3.0	20	60		7.0	.25	AD				
2N1045-2	3.8	1.0#J	3.0	1.0	100	20	60	.65		1.00	3.0	20	60		7.0	.25	AD				
2N1042	3.75	1.1#C	3.5		40	20	30	.1250		1.00	3.0	20	60	2508Δ	.25	.48	A				
2N1043	3.75	1.1#C	3.5		60	20	40	.1250		1.00	3.0	20	60	2508Δ	.25	.48	A				
2N1044	3.75	1.1#C	3.5		80	20	50	.1250		1.00	3.0	20	60	2508Δ	.25	.48	A				
2N1045	3.75	1.1#C	3.5		100	20	60	.1250		1.00	3.0	20	60	2508Δ	.25	.48	A				
2N2552	3.75	.90#C	3.0		40	20	30	.1250		.500	1.0	20	60	2258Δ	.25	.47	A				
2N2553	3.75	.90#C	3.0		60	20	40	.1250		.500	1.0	20	60	2258Δ	.25	.47	A				
2N2554	3.75	.90#C	3.0		80	20	50	.1250		.500	1.0	20	60	2258Δ	.25	.47	A				
2N2555	3.75	.90#C	3.0		100	20	60	.1250		.500	1.0	20	60	2258Δ	.25	.47	A				
2N2556	3.75	1.1#C	3.0		40	20	30	.1250		.500	1.0	20	60	2258Δ	.25	.47	A				
2N2557	3.75	1.1#C	3.0		60	20	40	.1250		.500	1.0	20	60	2258Δ	.25	.47	A				
2N2558	3.75	1.1#C	3.0		80	20	50	.1250		.500	1.0	20	60	2258Δ	.25	.47	A				
2N2559	3.75	1.1#C	3.0		100	20	60	.1250		.500	1.0	20	60	2258Δ	.25	.47	A				
2N2560	3.75	.90#C	3.5		40	20	30	.1250		1.00	3.0	20	60	2508Δ	.25	.48	A				
2N2561	3.75	.90#C	3.5		60	20	40	.1250		1.00	3.0	20	60	2508Δ	.25	.48	A				
2N2562	3.75	.90#C	3.5		80	20	50	.1250		1.00	3.0	20	60	2508Δ	.25	.48	A				
2N2563	3.75	.90#C	3.5		100	20	60	.1250		1.00	3.0	20	60	2508Δ	.25	.48	A				
TI156	3.75	20 #J	3.0	1.0	30	15	30	.65		2.00	.50	25	75	220†	.25	A					
TI156L	3.75	20 #J	3.0	1.0	30	15	30	.65		2.00	.50	25	75	220†	.25	A					
TI158	3.75	20 #J	3.0	1.0	60	30	40	.65		2.00	.50	25	75	220†	.25	A					
TI158A	3.75	20 #J	3.0	1.0	80	30	60	.65		2.00	.50	25	75	220†	.25	A					
TI158AL	3.75	20 #J	3.0	1.0	80	30	60	.65		2.00	.50	25	75	220†	.25	A					
TI158L	3.75	20 #J	3.0	1.0	60	30	40	.65		2.00	.50	25	75	220†	.25	A					
TI159	3.75	20 #J	3.0	1.0	40	20	30	.65		.50	1.0	20	60	225	.25	A					
TI160	3.75	20 #J	3.0	1.0	60	20	40	.65		.50	1.0	20	60	225	.25	A					
TI161	3.75	20 #J	3.0	1.0	80	20	50	.65		.50	1.0	20	60	225	.25	A					
TI162	3.75	20 #J	3.0	1.0	100	20	60	.65		.50	1.0	20	60	225	.25	A					
TI539	3.75	20 #J	3.5	1.0	60	28	60	.50		2.00	2.0	30	75	250†	.25	A					
TI540	3.75	20 #J	3.5	1.0	80	28	60	1.0		2.00	2.0	45	113	250†	.25	A					
2N2553	3.7	.90#J			60	20	40	.070		.500	1.0	20	60	2258Δ	.25	A					
2N2555	3.7	.90#J			100	20	60	.070		.500	1.0	20	60	2258Δ	.25	A					
2N2557	3.7	1.1#J			60	20	40	.070		.500	1.0	20	60	2258Δ	.25	A					
2N2559	3.7	1.1#J			100	20	60	.070		.500	1.0	20	60	2258Δ	.25	A					
2N158	3.54	170#S	2.00		60	30	60	1.0		2.00	1.0	12	38	4.0Δ	.75						
2N1042	3.5	200#J			40	20	30	8.0		1.00	3.0	20	60	2508Δ	.25	AD					
2N1043	3.5	200#J			60	20	40	8.0		1.00	3.0	20	60	2508Δ	.25	AD					
2N1044	3.5	200#J			80	20	50	8.0		1.00	3.0	20	60	2508Δ	.25	AD					
2N1045	3.5	200#J			100	20	60	8.0		1.00	3.0	20	60	2508Δ	.25	AD					
2N141/13	3.0	20 #J	1.0	.50	60	30	30	2.0		2.00	.50	25			4.0	A					
2N143/13	3.0	20 #J	1.0		60	30	30	5.0		6.00	.25	10			6.0	A					
2N155	3.00	1.5#J	3.0	.50	30	15	15	1.0		2.00	.50	320	180†		4.0Δ	.65	A				
2N156	3.0	#J	3.0	.50	30	15	30	1.0		2.00	.50	25	320		4.0Δ	.75	AD				
2N158	3.0	#J	3.0	.50	60	30	60	1.0		2.00	.50	21	320		4.0Δ	.75	AD				
2N158A	3.0	#J	3.0	.50	80	30	60	1.0		2.00	.50	21	320		4.0Δ	.75	AD				
2N242	3.0	250#J	2.0		45	45	45	5.00				40	5.0		.80						
2N255	3.00	#J	3.0	.50	15	15	15	1.0		2.00	.50	300	100			A					
2N255A	3.00	#J	3.0	.50	15	15	15	5.0		2.00	.50	300	100	125†		A					
2N256	3.00	#J	3.0	.50	30	30	30	1.0		2.00	.50	300	100			A					
2N256A	3.00	#J	3.0	.50	30	15	25	5.00		2.00	.50	300	100	125†		A					
2N296	3.0	200#J	2.0		30	15	60	1.0		2.00	1.0	20		4.0	1.0	A					
2N1326	3.0	23 #J	3.0		100	15	75	2.0		2.00	.50	30	90		1.0	A					

# DATI TECNICI DEI TRANSISTORI DI POTENZA PNP AL GERMANIO

disposti in ordine della massima resistenza termica decrescente

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TIPO	MAX. RESI- STENZA TER- MICA Giun- zione- involucro $\theta_{j-c}$ (°C/W)	MAX. DISS. COLL. in aria libera a 25°C P. (W)	VALORI LIMITE 25°C TEMPERATURA MASSIMA	VALORI LIMITE 25°C						$I_{CBO}$ MAX. con $V_{CB}$ max. a 25°C (mA)	$h_{FE}$ $\dagger-h_{FE}$				$f_{\alpha E}$  $\dagger-f_{\alpha B}$ (kHz)	MAX. RESI- STENZA SATU- RAZIO- NE ( $\Omega$ )	$\tau_r$  $\dagger-\tau_r$ ( $\mu$ sec.)	STRUTTURA
				$I_c$ $\dagger-I_c$ (A)	$I_b$ $\dagger-I_b$ (A)	$BV_{CBO}$ (V)	$BV_{EBO}$ (V)	$BV_{CEO}$ $\dagger-BV_{CEC}$ $\dagger-BV_{CEK}$ (V)	POLARIZZAZIONE		MIN.	MAX.						
									$V_{CB}$ $\dagger-V_{CE}$ (V)				$I_c$ $\dagger-I_b$ $\Delta-I_E$ (A)	$\dagger-TIP$				
												$V_{CB}$ $\dagger-V_{CE}$ (V)	$I_c$ $\dagger-I_b$ $\Delta-I_E$ (A)	$\dagger-TIP$				
2N1437	3.0	23	230#J	3.0	.50	100	15	80	2.0	2.00	.50	20	150	.75	A			
2N1438	3.0	23	#J	3.0	.50	100	30	90	2.0	2.00	.50	20	4.0	1.0	A			
2N1465	3.0	20	#J	3.0	.50	120	15	100	2.5	2.00	.50	20		.75	A			
2N1466	3.0	20	#J	3.0	.50	120	15	100	2.5	2.00	.50	20		.75	A			
2N1504/10	3.0	#J	3.0	.50	80	30	60	1.0	2.00	.50	21	150	.75	A				
B1914	3.0	20	#J	3.0	.50	50	50	50	2.00	.60	65		.87	A				
OC22	3.00	150	J	1.0	.20	47	12	32	.100	2.0	1.0	50	150	2500	$\dagger$			
OC23	3.00*	160	J	1.0	.20	55	12	24	.030	2.0	1.0	50	150	2600	$\dagger$			
OC24	3.00	150	J	1.0	.20	47	12	32	.100	2.0	1.0	50	150	2500	$\dagger$			
TI366	3.0			3.0		60		45	.100	1.0	1.0	50		.10	A			
TI367	3.0			3.0		60		40	.200	1.0	.50	30		.15	A			
TI368	3.0			3.0		45		25	.100	1.0	1.0	50		.10	A			
TI369	3.0			3.0		45		23	.200	1.0	.50	30		.15	A			
TI370	3.0			3.0		30		15	.200	1.0	.50	30		.15	A			
2G240	2.66		*J	3.0		80	1.0		1.00	2.00	.50	40	70	15	1.3	.70	D	
2N1046	2.5	30	#S			100	1.5	50	10	1.00	.50	40	200	15	1.0	D		
2N1755	2.5	28	#J	3.0	2.0	40	30	30	3.0	2.00	.50	30	75	15	.23	4.0	A	
2N1756	2.5	28	#J	3.0	2.0	60	30	50	3.0	2.00	.50	30	75	15	.23	4.0	A	
2N1757	2.5	28	#J	3.0	2.0	80	30	65	3.0	2.00	.50	30	75	15	.23	4.0	A	
2N1758	2.5	28	#J	3.0	2.0	100	30	75	3.0	2.00	.50	30	75	15	.23	4.0	A	
2N1759	2.5	28	#J	3.0	2.0	40	30	35	3.0	2.00	.50	60	150	15	.16	3.5	A	
2N1760	2.5	28	#J	3.0	2.0	60	30	50	3.0	2.00	.50	60	150	15	.18	3.5	A	
2N1761	2.5	28	#J	3.0	2.0	80	30	65	3.0	2.00	.50	60	150	15	.27	5.0	A	
2N1762	2.5	28	#J	3.0	2.0	100	30	75	2.0	2.00	.50	60	150	15	.27	5.0	A	
2N2067	2.5	100	#J	3.0	2.0	40	20	35	3.0	1.40	.50	20		7.0	.70	A		
2N2067B	2.5	100	#J	3.0	2.0	40	20	35	3.0	1.40	.50	15		7.0	.50	A		
2N2067G	2.5	100	#J	3.0	2.0	40	20	35	3.0	1.40	.50	25		7.0	.50	A		
2N2067-O	2.5	100	#J	3.0	2.0	40	20	35	3.0	1.40	.50	20		7.0	.50	A		
2N2067W	2.5	100	#J	3.0	2.0	40	20	35	3.0	1.40	.50	33		7.0	.50	A		
2N2068	2.5	100	#J	3.0	2.0	40	40	65	3.0	1.40	.50	20		7.0	.50	A		
2N2068G	2.5	100	#J	3.0	2.0	80	40	65	3.0	1.40	.50	25		7.0	.50	A		
2N2068-O	2.5	100	#J	3.0	2.0	80	40	65	3.0	1.40	.50	20		7.0	.50	A		
2SB25	2.5		J	1.5		60	12		2.0	1.5	1.0	34	110	250		A		
2SB26	2.5		J	1.5		25	12		1.6	1.5	1.0	34	110	250		A		
2SB26A	2.5	20		3.0		45	12	45	1.5	1.5	1.0	34	115			A		
2SB107A	2.5		J	2.0		60	15		.50	2.00	1.0	20	120	400		A		
2SB122	2.5		J	1.5		80	40		2.0	1.5	1.0	34	110	250	.15	A		
2SB215	2.5		J	3.0		100	20		.50	1.5	1.0	20	200		.10	A		
2SB216	2.5		J	1.5		60	10		.50	1.5	.20	25	200			A		
2SB217	2.5		J	1.5		20	10		.50	1.5	.20	25	200			A		
2SB254	2.5		J	.60		35	10		.50	1.5	.20	50	250			A		
CST1773	2.5	28	#J	3.0	2.0	25	20	20	5.0	2.00	.50	25	45	15	.50	4.0	$\Delta$	
CST1773AZ	2.5	28	#J	3.0	2.0	40	20	35	5.0	2.00	.50	25	45	15	.50	4.0	$\Delta$	
CST1773BZ	2.5	28	#J	3.0	2.0	80	30	60	5.0	2.00	.50	25	45	15	.50	4.0	$\Delta$	
CST1789	2.5	28	#J	3.0	2.0	120	35	90	3.0	2.00	.50	30	75	10	.23		$\Delta$	
NKT415	2.5	20	J	3.0		30				1.5	1.0	30	90	250			A	
NKT416	2.5	20	J	3.0		60				1.5	1.0	30	90	250			A	
2N538	2.2	34	#J	3.5	.50	80	28	60	2.0	2.00	2.0	20	50	200	.30		A	
2N538A	2.2	Same as 2N538	with added Spec: (Gp						17.5	to 52	mho;	h <sub>ie</sub> =24	to 48	ohm.)			A	
2N539	2.2	34	#J	3.5	.50	80	28	55	2.0	2.00	2.0	30	75	200	.30		A	
2N539A	2.2	110	#J	4.9	.70	80	28	55	2.0	2.00	2.0	30	75	300			A	
2N539B	2.2	Same as 2N539	with added Spec: (Gp						35	to 105	mho;	h <sub>ie</sub> =27	to 54	ohm.)			A	
2N540	2.2	34	#J	3.5	.50	80	28	55	2.0	2.00	2.0	45	113	200	.30		A	
2N540A	2.2	Same as 2N540	with added Spec: (Gp						71	to 213	mho;	h <sub>ie</sub> =30	to 60	ohm.)			A	
2N1202	2.2	34	#J	3.5	.50	80	28	60	2.0	2.00	.50	40	120	200	.60		A	
2N1203	2.2	34	#J	3.5	.50	120	28	70	2.0	2.00	2.0	25	75	200	.30		A	
2N1261	2.2	34	#J	3.5	.50	80	28	45	2.0	2.00	2.0	20	50	200	.30		A	
2N1262	2.2	34	#J	3.5	.50	80	28	45	2.0	2.00	2.0	30	75	200	.30		A	
2N1263	2.2	34	#J	3.5	.50	80	28	45	2.0	2.00	2.0	45	113	200	.30		A	
2N1501	2.2	34	#J	3.5	.50	60	28	40	2.0	2.00	2.0	25	100	200	.30		A	
2N1502	2.2	34	#J	3.5	.50	40	28	40	2.0	2.00	2.0	25	100	200	.30		A	
B177	2.2		J	3.0				30		.50	150						A	
B178	2.2		J	3.0				30		.50	40						A	
B179	2.2		J	3.0				40		.50	25						A	
2N234A	2.0		J	3.0	.15			40		.50	25						A	
2N235A	2.0	25	#J	3.0	.15	50	15	40	1.00		.50	40		.80			A	
2N235B	2.0	25	#J	3.0	.15	50	15	40	1.00		.50	60		.80			A	
2N236A	2.0		J	3.0	.15	50		40	1.00		.75	40		.33			A	

# DATI TECNICI DEI TRANSISTORI DI POTENZA PNP AL GERMANIO

disposti in ordine della massima resistenza termica decrescente

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TIPO	MAX. RESISTENZA TERMICA Guinzione-involucro $\theta_{jc}$ (°C/W)	MAX. DISS. COLL. in aria libera a 25°C P. (W)	TEMPERATURA MASSIMA	VALORI LIMITE 25°C					I <sub>CEO</sub> MAX. con V <sub>CE</sub> max. a 25°C (mA)	h <sub>FE</sub> †-h <sub>FE</sub>				f <sub>αe</sub> †-f <sub>αB</sub> (kHz)	MAX. RESISTENZA SATURAZIONE (Ω)	τ <sub>r</sub> †-τ <sub>s</sub> †-τ <sub>f</sub> (μsec.)	STRUTTURA
				I <sub>c</sub> -I <sub>e</sub> (A)	I <sub>B</sub> -I <sub>E</sub> (A)	BV <sub>CEO</sub> (V)	BV <sub>ESB</sub> (V)	BV <sub>CEO</sub> / BV <sub>ES</sub> (V)		POLARIZZAZIONE		MIN. (A)	MAX. (A)				
										V <sub>CB</sub> ∅-V <sub>CE</sub> (V)	I <sub>C</sub> ∅-I <sub>B</sub> Δ-I <sub>E</sub> (A)						
								∅-TIP		∅-TIP							
2N236B	2.0	∅	#J	3.0	.15	50		40	1.0	.75	60		12	.33			
2N297A	2.0	35	#J	4.0	1.0	60	40	40	3.0	2.0	5.0	40	100	.50			
2N297A	2.0	35	#S	4.0	1.0	60	40	40	3.0	2.0	.50	40	100	5.0	Δ		
2N399	2.0	∅	#J	3.0	.15			40	1.0	.75	40		400	.83			
2N400	2.0	∅	#J	3.0	.15	50		40	2.0	1.0	50		500	.33			
2N401	2.0	∅	#J	3.0	.15			40	1.0	.50	40		400	.83			
2N418	2.0	∅	#J	5.0	.50	100		80	1.5	2.0	4.0	40	500	400	.50		
2N419	2.0	∅	#J	3.0	.15	55		45	1.0	1.5	2.2	9.0	44	300	1.5		
2N420	2.0	∅	#J	5.0	.50	65		45	1.5	2.0	4.0	40	500	400	.50		
2N420A	2.0	∅	#J	5.0	.50	90		70	.50	2.0	4.0	40	500	400	.50		
2N553	2.0	∅	#J	4.0	1.0	80	40	40	2.0	2.0	.50	40	80	25	.30		
2N639	2.0	37	#J	5.0	.50			40	1.0	5.0	3.0	15	30	.83	15		
2N639A	2.0	37	#J	5.0	.50			70	5.0	5.0	3.0	15	30	.83	15		
2N639B	2.0	37	#J	5.0	.50			80	5.0	5.0	3.0	15	30	.83	15		
2N663	2.0	∅	#J	4.0		50	20	25	12	2.0	.50	25	75	15			
2N665	2.0	35	#J	5.0	1.0	80	40	40	2.0	2.0	.50	40	80	20	.30		
2N665	2.0	35	#S	5.0		80	40	40	10	2.0	.50	40	80	20	.30		
2N1011	2.0	35	#S	5.0		80	40	40	15	2.0	3.0	30	75	5.0	.50		
2N1138	2.0	∅	#J	5.0	.50			40	5.0	3.0	100	200					
2N1138A	2.0	∅	#J	5.0	.50			70	5.0	3.0	100	200					
2N1138B	2.0	∅	#J	5.0	.50			80	5.0	3.0	100	200					
2N2061	2.0	75	J	3.0		20	6.0	15	10	2.0	2.0	10			A		
2N2062	2.0	75	J	3.0		20	6.0	15	10	2.0	2.0	20			A		
2N2063	2.0	75	J	3.0		40	20	30	20	2.0	2.0	10			A		
2N2064	2.0	75	J	3.0		40	20	30	20	2.0	2.0	20			A		
2N2065	2.0	75	J	3.0		80	30	60	20	2.0	2.0	10			A		
2N2066	2.0	75	J	3.0		80	30	60	20	2.0	2.0	20			A		
2N2266	2.0	50	∅J	5.0	.70	100	28	55	2.0	2.0	2.0	25	75	200	.15		
2N2267	2.0	50	∅J	5.0	.70	120	28	55	2.0	2.0	2.0	25	75	200	.15		
2N2268	2.0	50	∅J	Same as	2N2266	except	collector	is	insulated	from	case.				A		
2N2269	2.0	50	∅J	Same as	2N2267	except	collector	is	insulated	from	case.				A		
2N2836	2.0	30	#C	3.5	.50	55	20	55	.05	0.0	1.0	Δ	30	100	500		
2N3154	2.0	38	#C	3.0	2.0	40	30	25	1.0	2.0	.50	60	180	15	.50		
2N3155	2.0	38	#C	3.0	2.0	60	30	40	1.0	2.0	.50	60	180	15	.50		
2N3156	2.0	38	#C	3.0	2.0	80	30	55	1.0	2.0	.50	60	180	15	.50		
2N3157	2.0	38	#C	3.0	2.0	100	30	65	1.0	2.0	.50	60	180	15	.50		
2N3158	2.0	38	#C	3.0	2.0	40	30	25	1.0	2.0	.50	30	75	10	.47		
2N3159	2.0	38	#C	3.0	2.0	60	30	40	1.0	2.0	.50	30	75	10	.47		
2N3160	2.0	38	#C	3.0	2.0	80	30	55	1.0	2.0	.50	30	75	10	.47		
2N3161	2.0	38	#C	3.0	2.0	100	30	65	1.0	2.0	.50	30	75	10	.47		
2SB64	2.0	25	∅J	6.0		100	1.0	100	.33	1.5	1.0	34	110	1000			
2SB69	2.0	25	∅J	6.0		60	1.0	60	.33	1.5	1.0	34	110	1000			
2SB149	2.0	∅	∅	8.0		40	30	10	1.5	5.0	60		250	.05			
2SB231	2.0	∅	∅	6.0	1.0	120	1.0	120	5.0	1.5	5.0	25	200	1000	.06		
2SB342	2.0	30	∅	6.0		120	1.0	120	5.0	1.5	5.0	25	250	1000	.06		
2SB343	2.0	30	∅	6.0		150	1.0	150	5.0	1.5	5.0	25	250	1000	.06		
2SB375	2.0	30	∅	9.0		150	1.0	150	5.0	1.5	8.0	25	250	1000	.06		
2SB390	2.0	30	∅	6.0		80	1.0	80	5.0	1.5	5.0	25	250	1000	.06		
2SB391	2.0	30	∅	6.0		50	1.0	50	5.0	1.5	3.0	25	350	1000	.06		
147T1	2.0	∅	#J	3.0		60	30	40	1.0	2.0	2.0	20	150	200	.13		
A1392	2.0	10	#J	10		155	4.0	150	60	1.0	10	16			AD		
AD103	2.0	23	∅J	15		50	10	32	10	.50	.50	30	75	200	.03		
AD104	2.0	23	∅J	10		65	20	45	10	.50	.50	28	70	200	.05		
AD105	2.0	∅	#J	8.0		85		60	10	.50	.50	25	40				
AD149	2.0	22	∅J	3.5			20	30	1.0	1.0	30	100		500			
AU101	2.0	10	∅J	10		120	1.0	120	10	2.0	5.0	30		400	.10		
AU102	2.0	10	∅J	10	2.0	40	1.0	40	10	2.0	5.0	17		400	.10		
AU103	2.0	10	∅J	10	2.0	155	4.0	155	1.0	1.0	10	16		25	2.0		
B1017	2.0	∅	#J	3.0		75		20	1.0	2.0	3.0	25		25			
B1085	2.0	∅	#	10		120	1.5	120	10	2.0	5.0	40		1500	.15		
B10064	2.0	10	#J	4.0	1.0			3.0	.50	2.0	1.0	15			.12		
B10069	2.0	10	#J	4.0	1.0			3.0	.50	2.0	1.0	15			.12		
OC25	2.0	23	∅J	4.0		40		40			1.0	15	80				
SPT212	2.0	30	∅S	3.0	.50	30	7.5		1.0	2.0	2.0	20	150	200	Δ		
V15/10DP	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.20	10	20	200			
V15/10P	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.02	10	20	200			
V15/20DP	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.20	20	30	200			
V15/20P	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.20	20	30	200			
V15/30DP	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.20	30	30	200			

# DATI TECNICI DEI TRANSISTORI DI POTENZA PNP AL GERMANIO

disposti in ordine della massima resistenza termica decrescente

TIPO	MAX. RESISTENZA TERMICA Giunzione-involucro $\theta_{j-c}$ (°C/W)	MAX. DISS. COLL. in aria libera a 25°C P. (W)	TEMPERATURA MASSIMA	VALORI LIMITE 25°C						I <sub>CEO</sub> MAX. con V <sub>CB</sub> max. a 25°C (mA)	h <sub>FE</sub> $\bar{f}_t$ -h <sub>FE</sub>				f <sub>oe</sub> $\bar{f}$ -f <sub>oeB</sub> (kHz)	MAX. RESISTENZA SATURAZIONE (Ω)	t <sub>r</sub> $\bar{t}_r$ $\bar{t}_s$ #1- $\bar{t}_s$ (μsec.)	STRUTTURA
				I <sub>c</sub> $\bar{I}_c$ (A)	I <sub>b</sub> $\bar{I}_b$ (A)	BV <sub>CEO</sub> (V)	BV <sub>ES0</sub> (V)	BV <sub>CEO</sub> $\bar{S}$ -BV <sub>CEO</sub> (V)	POLARIZZAZIONE		MIN.	MAX.						
									V <sub>CB</sub> $\bar{V}_{CB}$ (V)				I <sub>c</sub> $\bar{I}_c$ (A)					
				$\bar{I}_c$ $\bar{I}_c$ (A)	$\bar{I}_b$ $\bar{I}_b$ (A)	$\bar{V}_{CB}$ $\bar{V}_{CB}$ (V)	$\bar{V}_{CB}$ $\bar{V}_{CB}$ (V)	$\bar{V}_{CB}$ $\bar{V}_{CB}$ (V)	$\bar{V}_{CB}$ $\bar{V}_{CB}$ (V)		$\bar{I}_c$ $\bar{I}_c$ (A)	$\bar{I}_c$ $\bar{I}_c$ (A)	$\bar{I}_c$ $\bar{I}_c$ (A)	$\bar{I}_c$ $\bar{I}_c$ (A)				
2N236B	2.0	∅	#J	3.0	.15	50		40	1.0		.75	60			.33			
2N297A	2.0	35	#J	4.0	1.0	60	40	40	3.0	2.0	5.0	40	100	12	.50	5.0	Δ	
2N297A	2.0	35	#S	4.0	1.0	60	40	40	3.0	2.0	5.0	40	100	5.0	.50			
2N399	2.0	∅	#J	3.0	.15			40	1.0		.75	40		400	.83			
2N400	2.0	∅	#J	3.0	.15	50		40	2.0		1.0	50		500	.33			
2N401	2.0	∅	#J	3.0	.15			40	1.0		.50	40		400	.83			
2N418	2.0	∅	#J	5.0	.50	100		80	1.5	2.0	4.0	40	50	400	.50	15		
2N419	2.0	∅	#J	3.0	.15	55		45	1.0	1.5	2.2	9.0	44	300	1.5		Δ	
2N420	2.0	∅	#J	5.0	.50	65		45	1.5	2.0	4.0	40	50	400	.50	15		
2N420A	2.0	∅	#J	5.0	.50	90		70	5.0	2.0	4.0	40	50	400	.50	15		
2N553	2.0	∅	#J	4.0	1.0	80	40	40	2.0	2.0	.50	40	80	25	.30	5.0	Δ	
2N639	2.0	37	#J	5.0	.50			40	1.0	5.0	3.0	15	30		.83	15	Δ	
2N639A	2.0	37	#J	5.0	.50			70	5.0	5.0	3.0	15	30		.83	15	Δ	
2N639B	2.0	37	#J	5.0	.50			80	5.0	5.0	3.0	15	30		.83	15	Δ	
2N663	2.0	∅	#J	4.0			50	20	25	12	2.0	.50	25	75			A	
2N665	2.0	35	#J	5.0	1.0	80	40	40	2.0	2.0	.50	40	80	20	.30	5.0	Δ	
2N665	2.0	35	#S	5.0		80	40	40	10	2.0	.50	40	80	20	.30			
2N1011	2.0	35	#S	5.0		80	40	40	15	2.0	3.0	30	75	5.0	.50			
2N1138	2.0	∅	#J	5.0	.50			40		5.0	3.0	100	200					
2N1138A	2.0	∅	#J	5.0	.50			70		5.0	3.0	100	200					
2N1138B	2.0	∅	#J	5.0	.50			80		5.0	3.0	100	200					
2N2061	2.0	75	J	3.0		20	6.0	15	10	2.0	2.0	10					A	
2N2062	2.0	75	J	3.0		20	6.0	15	10	2.0	2.0	20					A	
2N2063	2.0	75	J	3.0		40	20	30	20	2.0	2.0	10					A	
2N2064	2.0	75	J	3.0		40	20	30	20	2.0	2.0	20					A	
2N2065	2.0	75	J	3.0		80	30	60	20	2.0	2.0	10					A	
2N2066	2.0	75	J	3.0		80	30	60	20	2.0	2.0	20					A	
2N2266	2.0	50	∅	5.0	.70	100	28	55	2.0	2.0	2.0	25	75	200	.15	8.0	A	
2N2267	2.0	50	∅	5.0	.70	120	28	55	2.0	2.0	2.0	25	75	200	.15	8.0	A	
2N2268	2.0	50	∅	J	Same as 2N2266	except collector is insulated from case.											A	
2N2269	2.0	50	∅	J	Same as 2N2267	except collector is insulated from case.											A	
2N2836	2.0	30	#C	3.5	.50	55	20	55	.05	0.0	1.0	30	100	500			A	
2N3154	2.0	38	#C	3.0	2.0	40	30	25	1.0	2.0	.50	60	180	15	.50	10	Δ	
2N3155	2.0	38	#C	3.0	2.0	60	30	40	1.0	2.0	.50	60	180	15	.50	10	Δ	
2N3156	2.0	38	#C	3.0	2.0	80	30	55	1.0	2.0	.50	60	180	15	.50	10	Δ	
2N3157	2.0	38	#C	3.0	2.0	100	30	65	1.0	2.0	.50	60	180	15	.50	10	Δ	
2N3158	2.0	38	#C	3.0	2.0	40	30	25	1.0	2.0	.50	30	75	10	.47	10	Δ	
2N3159	2.0	38	#C	3.0	2.0	60	30	40	1.0	2.0	.50	30	75	10	.47	10	Δ	
2N3160	2.0	38	#C	3.0	2.0	80	30	55	1.0	2.0	.50	30	75	10	.47	10	Δ	
2N3161	2.0	38	#C	3.0	2.0	100	30	65	1.0	2.0	.50	30	75	10	.47	10	Δ	
2SB64	2.0	25	∅	6.0		100	1.0	100	.33	1.5	1.0	34	110	1000			D	
2SB69	2.0	25	∅	6.0		60	1.0	60	.33	1.5	1.0	34	110	1000			D	
2SB149	2.0	∅	∅	8.0		40	30		1.5	5.0	60		250	.05			A	
2SB231	2.0	∅	∅	6.0	1.0	120	1.0	120	5.0	1.5	5.0	25	200	1000	.06	1.2	D	
2SB342	2.0	30	∅	6.0		120	1.0	120	5.0	1.5	5.0	25	250	1000	.06		D	
2SB343	2.0	30	∅	6.0		150	1.0	150	5.0	1.5	5.0	25	250	1000	.06		D	
2SB375	2.0	30	∅	9.0		150	1.0	150	5.0	1.5	8.0	25	250	1000	.06		D	
2SB390	2.0	30	∅	6.0		80	1.0	80	5.0	1.5	5.0	25	250	1000	.06		D	
2SB391	2.0	30	∅	6.0		50	1.0	50	5.0	1.5	3.0	25	350	1000	.06		D	
147T1	2.0	∅	#J	3.0		60	30	40	1.0	2.0	2.0	20	150	200	.13			
A1392	2.0	10	#J	10		155	4.0	150	60	1.0	10	16					AD	
AD103	2.0	23	∅	15		50	10	32	10	.50	.50	30	75	200	.03	12	Δ	
AD104	2.0	23	∅	10		65	20	45	10	.50	.50	28	70	200	.05	12	Δ	
AD105	2.0	∅	#J	8.0		85		60	10	.50	.50	25	40					
AD149	2.0	22	∅	3.5			20	30	1.0	1.0	30	100		500			A	
AU101	2.0	10	∅	10		120	1.0	120	10	2.0	5.0	30		400	.10	2.6	D	
AU102	2.0	10	∅	10	2.0	40	1.0	40	10	2.0	5.0	17		400	.10	3.9	D	
AU103	2.0	10	∅	10	2.0	155	4.0	150	60	1.0	10	16				2.0	AD	
B1017	2.0	∅	#J	3.0			75	20				25						
B1085	2.0	∅	#	10		120	1.5	120	10	2.0	5.0	40		1500	.15		D	
B10064	2.0	10	#J	4.0	1.0			3.0	.50	2.0	1.0	15			.12		Δ	
B10069	2.0	10	#J	4.0	1.0			3.0	.50	2.0	1.0	15			.12		Δ	
OC25	2.0	23	∅	3.0		40		40			1.0	15	80					
SPT212	2.0	30	∅	4.0	.50	30	7.5		1.0	2.0	2.0	20	150	200			A	
V15/10DP	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.20	10	20	200			A	
V15/10P	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.02	10	20	200			A	
V15/20DP	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.20	20	30	200			A	
V15/20P	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.20	20	30	200			A	
V15/30DP	2.0	∅	∅	3.0		15	5.0	5.0	.10	1.5	.20	30	30	200			A	

# DATI TECNICI DEI TRANSISTORI DI POTENZA PNP AL GERMANIO

disposti in ordine della massima resistenza termica decrescente

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TIPO	MAX. RESI- STENZA TER- MICA Giun- zione- involucri $\theta_{jc}$ (°C/W)	MAX. DISS. COLL. in aria libera a 25°C P. (W)	VALORI LIMITE 25°C					I <sub>CEO</sub> MAX. con V <sub>CB</sub> max. a 25°C (mA)	h <sub>FE</sub> †-h <sub>FE</sub>				f <sub>αe</sub> †-f <sub>αB</sub> (kHz)	MAX. RESI- STENZA SATU- RAZIONE (Ω)	τ <sub>s</sub> †-τ <sub>s</sub> †-1 (μsec.)	STRUTTURA
			TEMPERATURA MASSIMA						POLARIZZAZIONE		MIN.	MAX.				
			I <sub>C</sub> Ø-I <sub>E</sub> (A)	I <sub>B</sub> Ø-I <sub>E</sub> (A)	V <sub>CEO</sub> (V)	V <sub>EB0</sub> (V)	V <sub>CE0</sub> Ø-V <sub>CE0</sub> (V)		V <sub>CB</sub> Ø-V <sub>CE</sub> (V)	I <sub>C</sub> Ø-I <sub>B</sub> Δ-I <sub>E</sub> (A)						
									V <sub>CB</sub>	I <sub>C</sub>						
146T1	1.5	#J	3.0		40	20	30	1.0	2.0	2.0	20	150	200†	.13		
40050	1.5§	13Ø#J	5.0	1.0	40	5.0	40§	.50Ø	2.0	1.0	50	90	500§			A
40051	1.5§	13Ø#J	5.0	1.0	50	5.0	50§	.50Ø	2.0	1.0	50	90	500§			A
40254	1.5§	12.5#J	5.0	1.0	32	5.0	32§	3.0	2.0Ø	1.0	30	70Ø	300§			A
40022	1.5§	12.5#J	5.0	1.0	32	5.0	32§	1.0	2.0Ø	1.0	30	70Ø	300§			A
AD130	1.5*	30Ø#J	3.0	.50	32	10	30		1.0Ø	1.0	20	100	350			A
AD131	1.5*	30Ø#J	3.0	.50	64	20	45		1.0Ø	1.0	20	100	350			A
AD132	1.5*	30Ø#J	3.0	.50	80	20	60		1.0Ø	1.0	20	100	350			ΔΔ
AD133	1.5*	30Ø#J	15	2.0	50	10	32		.50Ø	5.0	20	60	300		25Ø	ΔΔ
AD138	1.5	#J	8.0		40	10	25	1.0	1.5Ø	5.0	25	42Ø	5.5			A
AD138/50	1.5	#J	8.0		70	20	35	1.0	1.5Ø	5.0	25	42Ø	5.5			A
AD140	1.5	35Ø#J	3.5		55	20	40#	.10Ø	0.0	1.0	30		4.5			A
AD142	1.5	30 †J	10	3.0	80	10	55§	5.0	2.0Ø	1.0Δ	100Ø		450	.10		A
AD143	1.5	30 †J	10	3.0	60	10	32§	5.0	2.0Ø	1.0Δ	100Ø		450	.25		A
AD150	1.5Ø	30Ø#J	3.5	.50	32	10	30		1.0Ø	1.0	30	100	450			A
ADY22	1.5	40Ø#J	10	2.0	30	12	15		0.0	1.0	15		250†			A
ADY23	1.5	40Ø#J	10	2.0	80	12	40		0.0	1.0	20		250†			A
ADY24	1.5	40Ø#J	10	2.0	80	12	40		0.0	1.0	50		250†			A
ADY25	1.5	40Ø#J	7.5	2.0	100	12	60		0.0	1.0	20		250†			A
ADY27	1.5#	30Ø#J	3.5	.50	32	10	30		1.0Ø	1.0	30	100	450			A
AL100	1.5	30 †J	10	3.0	100	1.0	40	.50Ø	2.0Ø	1.0Δ	125Ø		7.5M§	.20	.10	ΔΔ
AL101	1.5	30 †J	10	3.0	60	1.0	40	.50Ø	2.0Ø	1.0Δ	90Ø		7.5M§	1.0	.10	ΔΔ
AL102	1.5	30 †J	5.0	1.0	75	1.5	50	1.0Ø	2.0Ø	1.0Δ	150Ø		4.0M§			D
AL103	1.5	30 †J	5.0	1.0	60	1.0	40	1.0Ø	2.0Ø	1.0Δ	80Ø		3.0M§			D
ASZ15	1.5Ø	30Ø#J	6.0	1.0	80	40	60	.10Ø	1.0	1.0	20	55	250†		20	A
ASZ16	1.5Ø	#J	6.0	1.0	60	20	48	.10Ø	1.0	1.0	45Ø	130	250†		20	A
ASZ17	1.5Ø	#J	6.0	1.0	60	20	48	.10Ø	1.0	1.0	25Ø	75	250†		20	A
ASZ18	1.5	#J	6.0	1.0	80	40	60	.10Ø	1.0	1.0	30Ø	110	250		20	Δ
AUY19	1.5*	30Ø#J	3.0		64	20	45		1.0Ø	1.0	20	100	350		10Ø	ΔΔ
AUY20	1.5*	30Ø#J	3.0		80	20	60		1.0Ø	1.0	20	100	350		10Ø	ΔΔ
AUY21	1.5*	36Ø#J	10		65	20	45§		.50Ø	5.0	12.5	60	300		12Ø	ΔΔ
AUY22	1.5*	30Ø#J	8.0		80	20	60§		.50Ø	5.0	12.5	40	300		12Ø	ΔΔ
AUY28	1.5	30Ø#J	6.0	1.5	90	24	65	1.5	1.5Ø	5.0	20	33Ø	.08		10	A
AUY29	1.5*	36Ø#J	15		50	10	32§	1.0	.50Ø	5.0	20	60	300		12Ø	ΔΔ
B1913	1.5	5.0Ø#J	3.0	.30			50Ø		2.0Ø	.60	65			.87		ΔΔ
B10142	1.5	30 ØJ	10				350Ø	1.0	2.0Ø	6.0	20			.08	1.0#	ΔΔ
B10142A	1.5	30 ØJ	10				290Ø	1.0	2.0Ø	6.0	20			.08	1.0#	ΔΔ
B10142B	1.5	30 ØJ	10				225Ø	1.0	2.0Ø	6.0	20			.08	1.0#	ΔΔ
B10143	1.5	40 ØJ	15				290Ø	1.0	2.0Ø	9.0	25			.08	1.2#	ΔΔ
B10143A	1.5	40 ØJ	15				225Ø	1.0	2.0Ø	9.0	25			.08	1.2#	ΔΔ
B10143B	1.5	40 ØJ	15				165Ø	1.0	2.0Ø	9.0	25			.08	1.2#	ΔΔ
B10144	1.5	50 ØJ	20				165Ø	1.0	2.0Ø	15	25			.03	1.5#	ΔΔ
B10144A	1.5	50 ØJ	20				130Ø	1.0	2.0Ø	15	25			.03	1.5#	ΔΔ
B10144B	1.5	50 ØJ	20				100Ø	1.0	2.0Ø	15	25			.03	1.5#	ΔΔ
CDT1309	1.5	45Ø#J	3.0	2.0	40	10	35Ø	2.0						.75		A
CDT1310	1.5	45Ø#J	5.0	2.0	40	35	35Ø	5.0	2.0Ø	2.0	40	120	8.0	.30	3.5	A
CDT1311	1.5	45Ø#J	5.0	2.0	60	35	50Ø	5.0	2.0Ø	2.0	40	120	8.0	.30	3.5	A
CDT1312	1.5	45Ø#J	5.0	2.0	80	35	65Ø	5.0	2.0Ø	2.0	40	120	8.0	.30	3.5	A
CDT1313	1.5	45Ø#J	5.0	2.0	100	35	75Ø	5.0	2.0Ø	2.0	40	120	8.0	.30	3.5	A
CDT1315	1.5Ø	45Ø#J	8.0	.30	100	35	75	20	2.0Ø	2.0	60	150				ΔΔ
CDT1319	1.5	45Ø#J	5.0	2.0	40	35	35Ø	5.0	2.0Ø	2.0	60		6.0	.30	3.5	A
CDT1320	1.5	45Ø#J	5.0	2.0	60	35	50Ø	5.0	2.0Ø	2.0	20	60	6.0	.30	3.5	A
CDT1321	1.5	45Ø#J	5.0	2.0	80	35	65Ø	5.0	2.0Ø	2.0	20	60	6.0	.30	3.5	A
CDT1322	1.5	45Ø#J	5.0	2.0	100	35	75Ø	5.0	2.0Ø	2.0	20	60	6.0	.30	3.5	A
NKT401	1.5Ø	#	10	1.0	80	20	30	5.0	1.5	6.0	15	50	600†			A
NKT402	1.5Ø	#	10	1.0	60	20	20	5.0	1.5	6.0	30	90	600†			A
NKT403	1.5Ø	#	10	1.0	80	20	30	5.0	1.5	1.0	50	150	600†			A
NKT404	1.5Ø	#	10	1.0	60	20	20	5.0	1.5	1.0	50	150	600†			A
NKT405	1.5Ø	40 #J	8.0		60		60		1.5	1.0	100		750†			A
NKT450	1.5		3.0	.50	36	10	36Ø	5.0	1.5	1.0	30	150	600†			A
NKT451	1.5	13 #J	2.0	.50	36	10	36Ø	5.0	1.5Ø	1.0	50	150	350			A
NKT452	1.5	13 #J	2.0	.50	36	10	36Ø	5.0	1.5Ø	1.0	30	90	300			A
NKT453	1.5	13 #J	2.0	.50	36	10	36Ø	5.0	1.5Ø	1.0	15	45	250			A
OC20	1.5	30Ø#J	8.0		100	40	75	.10	1.0Ø	1.0	25	75	250	.16	20	A
OC28	1.5Ø	30Ø#J	6.0		80	2.0	60	.10Ø		6.0		32	200†			ΔΔ
OC29	1.5Ø	30Ø#J	6.0		60	2.0	32	.10Ø		6.0		90	200†			ΔΔ
OC35	1.5Ø	30Ø#J	6.0		60	2.0	32	.10Ø		6.0		50	200†			ΔΔ
OC36	1.5Ø	30Ø#J	6.0		80	2.0	32	.10Ø		6.0		70	200†			ΔΔ
SFT211	1.5	45Ø#J	6.0	1.0	80	40	80§	2.0	2.0Ø	2.0	30	100	8.0	.26		A

# DATI TECNICI DEI TRANSISTORI DI POTENZA PNP AL GERMANIO

disposti in ordine della massima resistenza termica decrescente

TIPO	MAX. RESI-STENZA TER-MICA Giunzione-involucro θ <sub>j-c</sub>	MAX. DISS. COLL. in aria libera a 25°C P.	VALORI LIMITE 25°C	VALORI LIMITE 25°C				h <sub>FE</sub> †-h <sub>FE</sub>				f <sub>αE</sub>	MAX. RESI-STENZA SATU-RAZIO-NE	τ <sub>r</sub> ∅-τ <sub>d</sub> † τ <sub>r</sub> S-τ <sub>r</sub> #-†	STRUTTURA				
				I <sub>c</sub> ∅-I <sub>e</sub>	I <sub>B</sub> ∅-I <sub>E</sub>	BV <sub>CEO</sub>	BV <sub>EBO</sub>	∅BV <sub>CE</sub>	∅BV <sub>CE</sub>	POLARIZZAZIONE						MIN.	MAX.		
										I <sub>CEO</sub> con V <sub>CB</sub> max. a 25°C								∅-V <sub>CE</sub>	I <sub>c</sub> ∅-I <sub>B</sub> ∆-I <sub>E</sub>
										∅-V <sub>CE</sub>	I <sub>c</sub> ∅-I <sub>B</sub> ∆-I <sub>E</sub>								
				∅-I <sub>e</sub>	∅-I <sub>E</sub>	(V)	(V)	(V)	(mA)	(V)	(A)					∅-TIP	∅-TIP		
(°C/W)	(W)	TEMPERATURA MASSIMA	(A)	(A)	(V)	(V)	(V)	(mA)	(V)	(A)	∅-TIP	∅-TIP	(kHz)	(Ω)	(lusec.)				
SFT213	1.5	450#S	3.0	.50	40	20	30	1.0	2.00	2.0	20	150	200†	.13		A			
SFT214	1.5	450#S	3.0	.50	60	30	40	1.0	2.00	2.0	20	150	200†	.13		A			
SFT238	1.5	450#S	6.0	1.0	40	20	30	3.0	2.00	5.0	20	300	300†	.07	6.0	∆∆			
SFT239	1.5	450#S	6.0	1.0	60	30	40	3.0	2.00	5.0	20	300	300†	.07	6.0	∆∆			
SFT240	1.5	450#S	6.0	1.0	80	40	60	3.0	2.00	5.0	20	300	300†	.07	6.0	∆∆			
SFT250	1.5	450#S	3.0	.50	80	40	60	1.0	2.00	2.0	20	150	200†	.13		A			
2N456	1.4	500#J	5.0	3.0	40	20	40	2.0	1.50	5.0	10	300		.20	26	A			
2N457	1.4	500#J	5.0	3.0	60	20	60	2.0	1.50	5.0	10	300		.20	26	A			
2N458	1.4	500#J	5.0	3.0	80	20	80	2.0	1.50	5.0	10	300		.20	26	A			
2SB300	1.4	∅J	10		100	1.0	100	.330	1.50	5.0	30	200				D			
2SB301	1.4	∅J	10		60	1.0	60	.330	1.50	5.0	30	200				D			
2SB151	1.30	#S	5.0		80	60	50	5.00	1.50	1.0	750				90	∆∆			
2SB152	1.30	#S	5.0		100	60	65	.50	1.50	1.0	750				90	∆∆			
2SB311	1.3	500#J	10		180	1.0		.220	1.00	1.0	30	125		.11		D			
2N378	1.2	500#J	5.0		20			.50	2.00	2.0	15	40	5.0∆	.50	25∆	A			
2N379	1.2	500#J	5.0		40			.50	2.00	2.0	20	70	5.0∆	.50	25∆	A			
2N380	1.2	500#J	5.0		30			.50	2.00	2.0	30	70	8.0∆	.50	25	A			
2N459	1.2	500#J	5.0		105			5.00	2.00	2.0	20	70	5.0∆	.50	25	A			
2N637	1.2	#J	5.0	.50	60		30	1.00	5.00	3.0	30	60			8.0	∆			
2N637A	1.2	#J	5.0	.50	90		55	1.00	5.00	3.0	30	60			8.0	∆			
2N637B	1.2	#J	5.0	.50	100		65	1.00	5.00	3.0	30	60			8.0	∆			
2N638	1.2	#J	5.0	.50	60		30	1.00	5.00	3.0	20	40			10	∆			
2N638A	1.2	#J	5.0	.50	90		55	1.00	5.00	3.0	20	40			10	∆			
2N638B	1.2	#J	5.0	.50	100		65	1.00	5.00	3.0	20	40			10	∆			
2N1136	1.20	#J	6.0		60		30	1.00	5.00	3.0	50	100		.33	5.0				
2N1136A	1.20	#J	6.0		90		55	1.00	5.00	3.0	50	100		.33	5.0				
2N1136B	1.20	#J	6.0		100		65	1.00	5.00	3.0	50	100		.33	5.0				
2N1137	1.20	#J	6.0		60		30	1.00	5.00	3.0	75	150		.33	5.0				
2N1137A	1.20	#J	6.0		90		55	1.00	5.00	3.0	75	150		.33	5.0				
2N1137B	1.20	#J	6.0		100		65	1.00	5.00	3.0	75	150		.33	5.0				
2N1314	1.20	125#J	3.5		32	10	16	1.00	140	.03	20	80	4.5			A			
2N2137	1.2	1700#J	3.0		30	15	20	2.0	2.00	.50	30	60	12∆	.25					
2N2137A	1.2	1700#J	3.0		30	15	20	2.0	2.00	.50	30	60	12∆	.25					
2N2138	1.2	630#J	3.0		45	25	30	2.0	2.00	.50	30	60	12∆	.25		A			
2N2138A	1.2	630#J	3.0		45	25	30	2.0	2.00	.50	30	60	12∆	.25		A			
2N2139	1.2	630#J	3.0		60	30	45	2.0	2.00	.50	30	60	12∆	.25		A			
2N2139A	1.2	630#J	3.0		60	30	45	2.0	2.00	.50	30	60	12∆	.25		A			
2N2140	1.2	630#J	3.0		75	40	60	2.0	2.00	.50	30	60	12∆	.25		A			
2N2140A	1.2	630#J	3.0		75	40	60	2.0	2.00	.50	30	60	12∆	.25		A			
2N2141	1.2	630#J	3.0		90	45	65	2.0	2.00	.50	30	60	12∆	.25		A			
2N2141A	1.2	630#J	3.0		90	45	65	2.0	2.00	.50	30	60	12∆	.25		A			
2N2142	1.2	630#J	3.0		30	15	20	2.0	2.00	.50	50	100	12∆	.25		A			
2N2142A	1.2	630#J	3.0		30	15	20	2.0	2.00	.50	50	100	12∆	.25		A			
2N2143	1.2	630#J	3.0		45	25	30	2.0	2.00	.50	50	100	12∆	.25		A			
2N2143A	1.2	630#J	3.0		45	25	30	2.0	2.00	.50	50	100	12∆	.25		A			
2N2144	1.2	630#J	3.0		60	30	45	2.0	2.00	.50	50	100	12∆	.25		A			
2N2144A	1.2	630#J	3.0		60	30	45	2.0	2.00	.50	50	100	12∆	.25		A			
2N2145	1.2	630#J	3.0		75	40	60	2.0	2.00	.50	50	100	12∆	.25		A			
2N2145A	1.2	630#J	3.0		75	40	60	2.0	2.00	.50	50	100	12∆	.25		A			
2N2146	1.2	630#J	3.0		90	45	65	2.0	2.00	.50	50	100	12∆	.25		A			
2N2146A	1.2	630#J	3.0		90	45	65	2.0	2.00	.50	50	100	12∆	.25		A			
2SB124	1.2	∅J	15		60	25		10	1.5	15	700		300†	.02		A			
2SB125	1.2	∅J	15		36		25	10	1.5	15	700		300†	.02		A			
2SB246	1.2	540#J	5.0		40		25	.50	1.50	2.0	40	80	350†			A			
2SB247	1.2	540#J	5.0		60		35	.50	1.50	2.0	40	80	350†	.50		A			
2SB248	1.2	540#J	5.0		40		25	1.0	1.50	2.0	40	80	350†			A			
2SB248A	1.2	540#J	5.0		60		35	1.0	1.50	2.0	40	80	350†			A			
2SB249	1.2	540#J	5.0		80	40	40	1.0	1.50	2.0	40	80	350†	.50		A			
2SB250	1.2	540#J	5.0		30		20	5.0	1.50	2.0	20	60	350†			A			
2SB250A	1.2	540#J	5.0		60		40	5.0	1.50	2.0	20	60	350†			A			
2SB251	1.2	540#J	5.0		30		20	5.0	1.50	2.0	40	150	350†			A			
2SB251A	1.2	540#J	5.0		60		40	5.0	1.50	2.0	40	150	350†			A			
2SB252	1.2	540#J	5.0		80		50	5.0	1.50	2.0	20	60	350†	.50		A			
2SB252A	1.2	540#J	5.0		120		80	5.0	1.50	2.0	20	60	350†	.50		A			
2SB253	1.2	540#J	5.0		80		50	5.0	1.50	2.0	40	150	350†	.50		A			
2SB253A	1.2	540#J	5.0		120		80	5.0	1.50	2.0	40	150	350†	.50		A			
B1151	1.20	#	15		30		25	2.00	2.0	4.0	20		400†	.25					
B1151A	1.20	#	15		50		25	2.00	2.0	4.0	20		400†	.25					
B1151B	1.20	#	15		80		25	2.00	2.0	4.0	20		400†	.25					