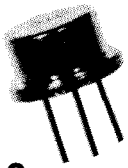


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germanium power transistors



PNP TO-8

$I_{C(MAX)} = 3A$

$V_{CEO(SUS)} = 30 \text{ to } 100V$

Type #	$V_{CEO(SUS)}$ (Volts)	V_{EBO} (Volts)	h_{FE} @ I_C/V_{CE} (Min-Max @ A/V)	$V_{CE(SAT)}$ @ I_C/I_B (V @ A/A)	V_{BE} @ I_C/V_{CE} (V @ A/V)	I_{CEV} @ V_{CE} (mA @ V)	P_D @ $T_C = 25^\circ C$ (Watts)	θ_{JC} ($^\circ C/W$)	$T_J(MAX)$ ($^\circ C$)	f_t (KHz)	Generic Product	General Information
2N1183	20	20	20-60 @ .4/2	.3 @ .4/.04	1.5 @ .4/2	.25 @ .45	7.5	10	100	350	2N1183 Family.	General Purpose Power
2N1183A	30	20	20-60 @ .4/2	.5 @ .4/.04	1.5 @ .4/2	.25 @ .60	7.5	10	100	500	3 Amp PNP Germanium	Switch and Amplifier.
2N1183B	40	20	20-60 @ .4/2	.5 @ .4/.04	1.5 @ .4/2	.25 @ .80	7.5	10	100	500	Alloy Power	Consumer, Industrial,
2N1184	20	20	40-120 @ .4/2	.3 @ .4/.04	1.5 @ .4/2	.25 @ .45	7.5	10	100	350	Transistors.	and Military Usage.
2N1184A	30	20	40-120 @ .4/2	.5 @ .4/.04	1.5 @ .4/2	.25 @ .60	7.5	10	100	500	Case 101	
2N1184B	40	20	40-120 @ .4/2	.5 @ .4/.04	1.5 @ .4/2	.25 @ .80	7.5	10	100	500		

NOTES:

² I_{CBO} @ V_{CB} (mA @ V)



PNP MS7 (spacesaver)

$I_{C(MAX)} = 3A$

$V_{CEO(SUS)} = 25 \text{ to } 65V$

Type #	$V_{CEO(SUS)}$ (Volts)	V_{EBO} (Volts)	h_{FE} @ I_C/V_{CE} (Min-Max @ A/V)	$V_{CE(SAT)}$ @ I_C/I_B (V @ A/A)	V_{BE} @ I_C/V_{CE} (V @ A/V)	I_{CEV} @ V_{CE} (mA @ V)	P_D @ $T_C = 25^\circ C$ (Watts)	θ_{JC} ($^\circ C/W$)	$T_J(MAX)$ ($^\circ C$)	Generic Product	General Information
2N1755	25	30	30-75 @ .5/2	.7 @ .3/.3	1.3 @ .3/.3	3.2 @ .40	28	2.5	95	2N1755 Family.	General Purpose Power
2N1756	40	30	30-75 @ .5/2	.7 @ .3/.3	1.3 @ .3/.3	3.2 @ .60	28	2.5	95	3 Amp PNP Germanium	Switch and Amplifier.
2N1757	55	30	30-75 @ .5/2	.7 @ .3/.3	1.3 @ .3/.3	3.2 @ .80	28	2.5	95	Alloy Power	Consumer, Industrial,
2N1758	65	30	30-75 @ .5/2	.7 @ .3/.3	1.3 @ .3/.3	3.2 @ 100	28	2.5	95	Transistors.	and Military Usage.
2N1759	25	30	60-150 @ .5/2	.5 @ .3/.3	.8 @ .3/.3	3.2 @ .40	28	2.5	95	Case 630	
2N1760	40	30	60-150 @ .5/2	.5 @ .3/.3	.8 @ .3/.3	3.2 @ .60	28	2.5	95		
2N1761	55	30	60-150 @ .5/2	.5 @ .3/.3	.8 @ .3/.3	3.2 @ .80	28	2.5	95		
2N1762	65	30	60-150 @ .5/2	.5 @ .3/.3	.8 @ .3/.3	3.2 @ 100	28	2.5	95		
2N2067	25	20	20-100 @ .5/14	.7 @ 1/1.1	.7 @ .5/14	3.2 @ .40	28	2.5	95		
2N2068	55	40	20-100 @ .5/14	.7 @ 1/1.1	.7 @ .5/14	3.2 @ .80	28	2.5	95		

² I_{CBO} @ V_{CB} (mA @ V)

³ $V_{BE(SAT)}$ @ I_C/I_B (V @ A/A)



PNP TO-3

$I_{C(MAX)} = 3 \text{ to } 25A$

$V_{CEO(SUS)} = 20 \text{ to } 100V$

Type #	NPN Complement	$V_{CEO(SUS)}$ (Volts)	V_{EBO} (Volts)	h_{FE} @ I_C/V_{CE} (Min-Max @ A/V)	$V_{CE(SAT)}$ @ I_C/I_B (V @ A/A)	V_{BE} @ I_C/V_{CE} (V @ A/V)	I_{CEV} @ V_{CE} (mA @ V)	P_D @ $T_C = 25^\circ C$ (Watts)	θ_{JC} ($^\circ C/W$)	$T_J(MAX)$ ($^\circ C$)	f_t (KHz)	Generic Product	General Information
2N176		30 (V_{CE})	10	>25 @ .5/2	.4 @ .3/.3	1.5 @ 2/2	3.2 @ .30	90	0.8	100	200	2N301 Family.	General Purpose Power
2N297A		40	10	40-100 @ .5/2	1 @ 2/2, 5	1.5 @ 2/2	3.2 @ .60	85	1.0	110	200	3 Amp PNP Germanium	Switch and Amplifier.
2N301		50	10	50-165 @ 1/2	.75 @ 5/5	1.5 @ 1/2	5.2 @ .30	50	1.5	100	200	Alloy Power	Consumer, Industrial,
2N301A		50	10	50-165 @ 1/2	.5 @ 5/5	1.5 @ 1/2	5.2 @ .30	50	1.5	100	200	Transistors.	and Military Usage.
2N1291	2N1292	30 (V_{CES})	15	>40 @ .5/2	1 @ 1/1.1	.9 @ .5/2	1.5 @ .35	20	3.0	85		Case 280	
2N1293	2N1294	60 (V_{CES})	15	>40 @ .5/2	1 @ 1/1.1	1.1 @ .5/2	1.5 @ .60	20	3.0	85			
2N1295	2N1296	80 (V_{CES})	15	>40 @ .5/2	1 @ 1/1.1	1.2 @ .5/2	1.5 @ .80	20	3.0	85			
2N1297	2N1298	100 (V_{CES})	15	>40 @ .5/2	1 @ 1/1.1	1.2 @ .5/2	1.5 @ 100	20	3.0	85			
2N2137 ⁵		20	15	30-60 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .30	62.5	1.2	100			
2N2138 ⁵		30	25	30-60 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .45	62.5	1.2	100			
2N2139 ⁵		45	30	30-60 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .60	62.5	1.2	100			
2N2140 ⁵		60	40	30-60 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .75	62.5	1.2	100			
2N2141 ⁵		65	45	30-60 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .90	62.5	1.2	100			
2N2142 ⁵		20	15	50-100 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .30	62.5	1.2	100			
2N2143 ⁵		30	25	50-100 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .45	62.5	1.2	100			
2N2144 ⁵		45	30	50-100 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .60	62.5	1.2	100			
2N2145 ⁵		60	40	50-100 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .75	62.5	1.2	100			
2N2146 ⁵		65	45	50-100 @ .5/2	.5 @ 2/2.2	1.2 @ 2/2.2	2.2 @ .90	62.5	1.2	100			
2N665		40	40	40-80 @ .5/2	.9 @ 3/2	1.5 @ 2/2	10.2 @ .80		2.0	95		2N1529 Family.	General Purpose Power
2N1529 ⁵		20	20	20-40 @ 3/2	1.5 @ 3/3	1.7 @ 3/3	20.2 @ .40		0.8	100		5 Amp PNP Germanium	Switch and Amplifier.
2N1530 ⁵		30	30	20-40 @ 3/2	1.5 @ 3/3	1.7 @ 3/3	20.2 @ .60		0.8	100		Alloy Power	Consumer, Industrial,
2N1531 ⁵		40	40	20-40 @ 3/2	1.5 @ 3/3	1.7 @ 3/3	20.2 @ .80		0.8	100		Transistors.	and Military Usage.
2N1532 ⁵		50	50	20-40 @ 3/2	1.5 @ 3/3	1.7 @ 3/3	20.2 @ 100		0.8	100		Case 280	
2N1533 ⁵		60	60	20-40 @ 3/2	1.5 @ 3/3	1.7 @ 3/3	20.2 @ 120		0.8	100			
2N1534 ⁵		20	20	35-70 @ 3/2	1.2 @ 3/3	1.5 @ 3/3	20.2 @ .40		0.8	100			
2N1535 ⁵		30	30	35-70 @ 3/2	1.2 @ 3/3	1.5 @ 3/3	20.2 @ .60		0.8	100			
2N1536 ⁵		40	40	35-70 @ 3/2	1.2 @ 3/3	1.5 @ 3/3	20.2 @ .80		0.8	100			
2N1537 ⁵		50	50	35-70 @ 3/2	1.2 @ 3/3	1.5 @ 3/3	20.2 @ 100		0.8	100			
2N1538 ⁵		60	60	35-70 @ 3/2	1.2 @ 3/3	1.5 @ 3/3	20.2 @ 120		0.8	100			
2N1539 ⁵		20	20	50-100 @ 3/2	.3 @ 3/3	.7 @ 3/3	20.2 @ .40		0.8	100			
2N1540 ⁵		30	30	50-100 @ 3/2	.3 @ 3/3	.7 @ 3/3	20.2 @ .60		0.8	100			
2N1541 ⁵		40	40	50-100 @ 3/2	.3 @ 3/3	.7 @ 3/3	20.2 @ .80		0.8	100			
2N1542 ⁵		50	50	50-100 @ 3/2	.3 @ 3/3	.7 @ 3/3	20.2 @ 100		0.8	100			
2N1543 ⁵		60	60	50-100 @ 3/2	.3 @ 3/3	.7 @ 3/3	20.2 @ 120		0.8	100			
2N1544 ⁵		20	20	75-150 @ 3/2	.5 @ 3/3	.5 @ 3/3	20.2 @ .40		0.8	100			
2N1545 ⁵		30	30	75-150 @ 3/2	.5 @ 3/3	.5 @ 3/3	20.2 @ .60		0.8	100			
2N1546 ⁵		40	40	75-150 @ 3/2	.5 @ 3/3	.5 @ 3/3	20.2 @ .80		0.8	100			
2N1547 ⁵		50	50	75-150 @ 3/2	.5 @ 3/3	.5 @ 3/3	20.2 @ 100		0.8	100			
2N1548 ⁵		60	60	75-150 @ 3/2	.5 @ 3/3	.5 @ 3/3	20.2 @ 120		0.8	100			

² I_{CBO} @ V_{CB} (mA @ V)

³ $V_{BE(SAT)}$ @ I_C/I_B (V @ A/A)

⁵ The "A-Version" (e.g. 2N1529A) is also readily available. It's a high-reliability version of the "non-A Version."