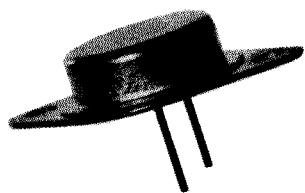


germanium power transistors



PNP TO-3 (cont'd)

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

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

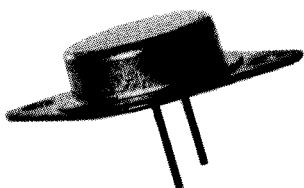
Type #	NPN Complement	$V_{CE(SUS)}$ (Volts)	V_{EBO} (Volts)	h_{FE} @ I_C/V_{CE} (Min-Max @ A/V)	$V_{CE(SAT)}$ @ I_C/I_B (V @ A/A)	V_{BE} @ I_C/V_{CE} (V @ A/V)	I_{CEY} @ V_{CE} (mA @ V)	P_D @ $T_C = 25^\circ C$ (Watts)	θ_{JC} ($^\circ C/W$)	$T_{J(MAX)}$ ($^\circ C$)	fr (KHz)	Generic Product	General Information		
2N456A		20	20	30-90@5/1.5	.5@5/.5	1.5@5/1.5	2 ² @40	50	1.5	100	200	2N456A Family. 7 Amp PNP Germanium Alloy Power Transistors. Case 280	General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.		
2N456B		30	30	30-90@5/1.5	.5@5/.5	1.5@5/1.5	2 ² @40	150	0.5	100	200				
2N457A		30	20	30-90@5/1.5	.5@5/.5	1.5@5/1.5	2 ² @60	50	1.5	100	200				
2N457B		40	30	30-90@5/1.5	.5@5/.5	1.5@5/1.5	2 ² @60	150	0.5	100	200				
2N458A		40	20	30-90@5/1.5	.5@5/.5	1.5@5/1.5	2 ² @80	50	1.5	100	200				
2N458B		45	30	30-90@5/1.5	.5@5/.5	1.5@5/1.5	2 ² @80	150	0.5	100	200				
2N1021A		50	30	30-90@5/1.5	.5@5/.5	1.5@5/1.5	2 ² @100	150	0.5	100	200				
2N1022A		55	30	30-90@5/1.5	.5@5/.5	1.5@5/1.5	2 ² @120	150	0.5	100	200				
2N627		30(V _{CEs})	20	10-30@10/2	1@10/1		20 ² @40	94	0.8	100				2N627 Family. 10 Amp PNP Germanium Alloy Power Transistors. Case 280	General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.
2N628		45(V _{CEs})	30	10-30@10/2	1@10/1		20 ² @60	94	0.8	100					
2N629		60(V _{CEs})	40	10-30@10/2	1@10/1		20 ² @80	94	0.8	100					
2N1549 ^s		20	20	10-30@10/2	1@10/1	1.3 ³ @10/1	20 ² @40	94	0.8	100		2N1549 Family. 15 Amp PNP Germanium Alloy Power Transistors. Case 280	High Current General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.		
2N1550 ^s		30	30	10-30@10/2	1@10/1	1.3 ³ @10/1	20 ² @60	94	0.8	100					
2N1551 ^s		40	40	10-30@10/2	1@10/1	1.3 ³ @10/1	20 ² @80	94	0.8	100					
2N1552 ^s		50	50	10-30@10/2	1@10/1	1.3 ³ @10/1	20 ² @100	94	0.8	100					
2N1553 ^s		20	20	30-60@10/2	.7@10/1	1 ³ @10/1	20 ² @40	94	0.8	100					
2N1554 ^s		30	30	30-60@10/2	.7@10/1	1 ³ @10/1	20 ² @60	94	0.8	100					
2N1555 ^s		40	40	30-60@10/2	.7@10/1	1 ³ @10/1	20 ² @80	94	0.8	100					
2N1556 ^s		50	50	30-60@10/2	.7@10/1	1 ³ @10/1	20 ² @100	94	0.8	100					
2N1557 ^s		20	20	50-100@10/2	.5@10/1	.7 ³ @10/1	20 ² @40	94	0.8	100					
2N1558 ^s		30	30	50-100@10/2	.5@10/1	.7 ³ @10/1	20 ² @60	94	0.8	100					
2N1559 ^s		40	40	50-100@10/2	.5@10/1	.7 ³ @10/1	20 ² @80	94	0.8	100					
2N1560 ^s		50	50	50-100@10/2	.5@10/1	.7 ³ @10/1	20 ² @100	94	0.8	100					
2N1162		25	20	15-65@25/1	1@25/1.6	1.7 ³ @25/1.6	15 ² @50	94	0.8	100				2N1162 Family. 25 Amp PNP Germanium Alloy Power Transistors. Case 280	High Current General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.
2N1162A		25	25	15-65@25/1	1@25/1.6	1.7 ³ @25/1.6	15 ² @50	94	0.8	100					
2N1164		35	25	15-65@25/1	1@25/1.6	1.7 ³ @25/1.6	15 ² @80	94	0.8	100					
2N1164A		40	40	15-65@25/1	1@25/1.6	1.7 ³ @25/1.6	15 ² @80	94	0.8	100					
2N1166		45	30	15-65@25/1	1@25/1.6	1.7 ³ @25/1.6	15 ² @100	94	0.8	100					
2N2266A		50	50	15-65@25/1	1@25/1.6	1.7 ³ @25/1.6	15 ² @100	94	0.8	100					

NOTES:

¹ I_{CBO} @ V_{CB} (mA @ V)

² $V_{BE(SAT)}$ @ I_C/I_B (V @ A/A)

³ The "A-Version" (e.g. 2N1529A) is also readily available. It's a high-reliability version of the "non-A Version."



NPN TO-3

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

$V_{CE(SUS)} = 20 \text{ to } 80V$

Type #	NPN Complement	$V_{CE(SUS)}$ (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_{CEY} @ 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
2N1218		20	15	30-120@1/1.5	1@1/.05	5-1.5@1/1.5	1@30	20	3.75	100	2N1292 Family. 3 Amp NPN Germanium Alloy Power Transistors. Case 280	General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.
2N1292	2N1291	30(V _{CEs})	15	>30@.5/2	1@1/.135	1@.5/2	1 ² @35	25	3.0	100		
2N1294	2N1293	45(V _{CEs})	15	>30@.5/2	1@1/.135	1@.5/2	2 ² @60	25	3.0	100		
2N1296	2N1295	60(V _{CEs})	15	>30@.5/2	1@1/.135	1@.5/2	3 ² @80	25	3.0	100		
2N1298	2N1297	80(V _{CEs})	15	>30@.5/2	1@1/.135	1@.5/2	4 ² @100	25	3.0	100		

¹ I_{CBO} @ V_{CB} (mA @ V)