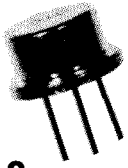


germanium power transistors



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} ($^\circ C/W$)	$T_{J(MAX)}$ ($^\circ C$)	ft (KHz)	Generic Product	General Information
2N1183	20	20	20-60@.4/2	.3@.4/.04	1.5@.4/2	25 ² @45	7.5	10	100	350	2N1183 Family.	General Purpose Power Switch and Amplifier. Alloy Power Transistors. Case 101
2N1183A	30	20	20-60@.4/2	.5@.4/.04	1.5@.4/2	25 ² @60	7.5	10	100	500	3 Amp PNP Germanium	
2N1183B	40	20	20-60@.4/2	.5@.4/.04	1.5@.4/2	25 ² @80	7.5	10	100	500	Alloy Power	
2N1184	20	20	40-120@.4/2	.3@.4/.04	1.5@.4/2	25 ² @45	7.5	10	100	350	Transistors.	
2N1184A	30	20	40-120@.4/2	.5@.4/.04	1.5@.4/2	25 ² @60	7.5	10	100	500	Case 101	
2N1184B	40	20	40-120@.4/2	.5@.4/.04	1.5@.4/2	25 ² @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 Switch and Amplifier. Alloy Power Transistors. Case 630
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	
2N1757	55	30	30-75@.5/2	.7@3/.3	1 ³ @3/.3	3 ² @80	28	2.5	95	Alloy Power	
2N1758	65	30	30-75@.5/2	.7@3/.3	1 ³ @3/.3	3 ² @100	28	2.5	95	Transistors.	
2N1759	25	30	60-150@.5/2	.5@3/.3	.8 ³ @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	3 ² @60	28	2.5	95		
2N1761	55	30	60-150@.5/2	.5@3/.3	.8 ³ @3/.3	3 ² @80	28	2.5	95		
2N1762	65	30	60-150@.5/2	.5@3/.3	.8 ³ @3/.3	3 ² @100	28	2.5	95		
2N2067	25	20	20-100@.5/14	.7@1/1	.7@.5/14	3 ² @40	28	2.5	95		
2N2068	55	40	20-100@.5/14	.7@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} ($^\circ C/W$)	$T_{J(MAX)}$ ($^\circ C$)	ft (KHz)	Generic Product	General Information	
2N176		30(V_{CER})	10	>25@.5/2	.4@3/3	1.5@2/2	3 ² @30	90	0.8	100	200	2N301 Family.	General Purpose Power Switch and Amplifier. Alloy Power Transistors. Case 280	
2N297A		40	10	40-100@.5/2	1@2/2	1.5@2/2	3 ² @60	85	1.0	110	200	3 Amp PNP Germanium		
2N301		50	10	50-165@1/2	.75@5/5	1.1@.5/2	5 ² @1/2	50	1.5	100	200	Alloy Power		
2N301A		50	10	50-165@1/2	.5@5/5	1.1@.5/2	5 ² @30	50	1.5	100	200	Transistors.		
2N1291	2N1292	30(V_{CES})	15	>40@.5/2	1@1/1	.9@.5/2	1.5 ² @35	20	3.0	85		Case 280		
2N1293	2N1294	60(V_{CES})	15	>40@.5/2	1@1/1	1.1@.5/2	1.5 ² @60	20	3.0	85				
2N1295	2N1296	80(V_{CES})	15	>40@.5/2	1@1/1	1.2@.5/2	1.5 ² @80	20	3.0	85				
2N1297	2N1298	100(V_{CES})	15	>40@.5/2	1@1/1	1.2@.5/2	1.5 ² @100	20	3.0	85				
2N2137 ^S		20	15	30-60@.5/2	.5@2/2	1.2 ² @2/2	2 ² @30	62.5	1.2	100				
2N2138 ^S		30	25	30-60@.5/2	.5@2/2	1.2 ² @2/2	2 ² @45	62.5	1.2	100				
2N2139 ^S		45	30	30-60@.5/2	.5@2/2	1.2 ² @2/2	2 ² @60	62.5	1.2	100				
2N2140 ^S		60	40	30-60@.5/2	.5@2/2	1.2 ² @2/2	2 ² @75	62.5	1.2	100				
2N2141 ^S		65	45	30-60@.5/2	.5@2/2	1.2 ² @2/2	2 ² @90	62.5	1.2	100				
2N2142 ^S		20	15	50-100@.5/2	.5@2/2	1.2 ² @2/2	2 ² @30	62.5	1.2	100				
2N2143 ^S		30	25	50-100@.5/2	.5@2/2	1.2 ² @2/2	2 ² @45	62.5	1.2	100				
2N2144 ^S		45	30	50-100@.5/2	.5@2/2	1.2 ² @2/2	2 ² @60	62.5	1.2	100				
2N2145 ^S		60	40	50-100@.5/2	.5@2/2	1.2 ² @2/2	2 ² @75	62.5	1.2	100				
2N2146 ^S		65	45	50-100@.5/2	.5@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 Switch and Amplifier. Alloy Power Transistors. Case 280
2N1529 ^S		20	20	20-40@3/2	1.5@3/3	1.7 ³ @3/3	20 ² @40		0.8	100		5 Amp PNP Germanium		
2N1530 ^S		30	30	20-40@3/2	1.5@3/3	1.7 ³ @3/3	20 ² @60		0.8	100		Alloy Power		
2N1531 ^S		40	40	20-40@3/2	1.5@3/3	1.7 ³ @3/3	20 ² @80		0.8	100		Transistors.		
2N1532 ^S		50	50	20-40@3/2	1.5@3/3	1.7 ³ @3/3	20 ² @100		0.8	100		Case 280		
2N1533 ^S		60	60	20-40@3/2	1.5@3/3	1.7 ³ @3/3	20 ² @120		0.8	100				
2N1534 ^S		20	20	35-70@3/2	1.2@3/3	1.5 ³ @3/3	20 ² @40		0.8	100				
2N1535 ^S		30	30	35-70@3/2	1.2@3/3	1.5 ³ @3/3	20 ² @60		0.8	100				
2N1536 ^S		40	40	35-70@3/2	1.2@3/3	1.5 ³ @3/3	20 ² @80		0.8	100				
2N1537 ^S		50	50	35-70@3/2	1.2@3/3	1.5 ³ @3/3	20 ² @100		0.8	100				
2N1538 ^S		60	60	35-70@3/2	1.2@3/3	1.5 ³ @3/3	20 ² @120		0.8	100				
2N1539 ^S		20	20	50-100@3/2	.3@3/3	.7 ³ @3/3	20 ² @40		0.8	100				
2N1540 ^S		30	30	50-100@3/2	.3@3/3	.7 ³ @3/3	20 ² @60		0.8	100				
2N1541 ^S		40	40	50-100@3/2	.3@3/3	.7 ³ @3/3	20 ² @80		0.8	100				
2N1542 ^S		50	50	50-100@3/2	.3@3/3	.7 ³ @3/3	20 ² @100		0.8	100				
2N1543 ^S		60	60	50-100@3/2	.3@3/3	.7 ³ @3/3	20 ² @120		0.8	100				
2N1544 ^S		20	20	75-150@3/2	.5@3/3	.5 ³ @3/3	20 ² @40		0.8	100				
2N1545 ^S		30	30	75-150@3/2	.5@3/3	.5 ³ @3/3	20 ² @60		0.8	100				
2N1546 ^S		40	40	75-150@3/2	.5@3/3	.5 ³ @3/3	20 ² @80		0.8	100				
2N1547 ^S		50	50	75-150@3/2	.5@3/3	.5 ³ @3/3	20 ² @100		0.8	100				
2N1548 ^S		60	60	75-150@3/2	.5@3/3	.5 ³ @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."