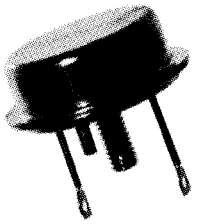
germanium power transistors



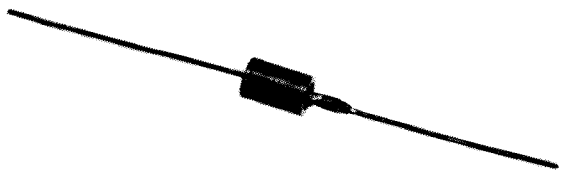
PNP TO-36

$I_{C(MAX)}$ = 5 to 30A $V_{CEO(SUS)}$ = 20 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 @ $T_C = 25°C$ (Watts)	θ_{JC} (°C/W)	$T_{J(MAX)}$ (°C)	Generic Product	General Information
2N3311	20	20	60-120@3/2	.1@3/.3	.6@3/2	5[2]@30	170	0.5	110	**2N3311 Family.** 5 Amp PNP Germanium Alloy Power Transistors. Case 510	General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.
2N3312	30	25	60-120@3/2	.1@3/.3	.6@3/2	5[2]@45	170	0.5	110		
2N3313	40	30	60-120@3/2	.1@3/.3	.6@3/2	5[2]@60	170	0.5	110		
2N3314	20	20	100-200@3/2	.1@3/.3	.5@3/2	5[2]@30	170	0.5	110		
2N3315	30	25	100-200@3/2	.1@3/.2	.5@3/2	5[2]@45	170	0.5	110		
2N3316	40	30	100-200@3/2	.1@3/.3	.5@3/2	5[2]@60	170	0.5	110		
2N2075	65	40	20-40@5/2	.7@12/2	.9@5/2	4[2]@80	170	0.5	110	**2N2075 Family.** 15 Amp PNP Germanium Alloy Power Transistors. Case 510	High Current General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.
2N2076	55	35	20-40@5/2	.7@12/2	.9@5/2	4[2]@70	170	0.5	110		
2N2077	45	25	20-40@5/2	.9@12/2	.9@5/2	4[2]@50	170	0.5	110		
2N2078	25	20	20-40@5/2	.9@12/2	.9@5/2	4[2]@40	170	0.5	110		
2N2079	65	40	35-70@5/2	.7@12/2	.9@5/2	4[2]@80	170	0.5	110		
2N2080	55	35	35-70@5/2	.7@12/2	.9@5/2	4[2]@70	170	0.5	110		
2N2081	45	25	35-70@5/2	.9@12/2	.9@5/2	4[2]@50	170	0.5	110		
2N2082	25	20	35-70@5/2	.9@12/2	.9@5/2	4[2]@40	170	0.5	110		
2N2152	30	25	50-100@5/2	.3@25/2	1[3]@5/.5	4[2]@45	170	0.5	110	**2N2152 Family.** 30 Amp PNP Germanium Alloy Power Transistors. Case 510	High Current General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.
2N2153	45	30	50-100@5/2	.3@25/2	1[3]@5/.5	4[2]@60	170	0.5	110		
2N2154	60	40	50-100@5/2	.3@25/2	1[3]@5/.5	4[2]@75	170	0.5	110		
2N2156	30	25	80-160@5/2	.3@25/2	1[3]@5/.5	4[2]@45	170	0.5	110		
2N2157	45	30	80-160@5/2	.3@25/2	1[3]@5/.5	4[2]@60	170	0.5	110		
2N2158	60	40	80-160@5/2	.3@25/2	1[3]@5/.5	4[2]@75	170	0.5	110		

NOTES:
[3] $V_{BE(SAT)}$ @ I_C/I_B (V @ A/A)

voltage transient suppressor diodes



DO-13

I_{PP} = 5.7 to 32 Amps V_R = 30.5 to 175 Volts P_P = 1500 Watts

Type #	V_R Stand-off Voltage (Volts)	BV_R Reverse Breakdown Voltage (Volts)	V_C Clamping Voltage (Volts)	V_F @ I_F Forward Voltage Drop (V @ A)	T.C. Temperature Coefficient (%/°C)	I_{PP} Peak Reverse Current 1.0 msec @ 25°C (Amps)	$I_{FM(SURGE)}$ One-Cycle Surge Current ½ Sine Wave 60 Hz, 25°C (Amps)	P_M D.C. Power Dissipation @ 25°C (Watts)	P_P Peak Pwr. Dissipation 1.0 msec @ 25°C (Watts)	Generic Product	General Information
1N5555	>30.5	>33.0	<47.5	3.5@100	.093	32	200	1.0	1500	**1N5555 Family.**	Voltage Transient Suppressor Diode. Industrial and Military Usage.
1N5556	>40.3	>43.7	<63.5	3.5@100	.094	24	200	1.0	1500		
1N5557	>49.0	>54.0	<78.5	3.5@100	.096	19	200	1.0	1500		
1N5558	>175.0	>191.0	<265.0	3.5@100	.100	5.7	200	1.0	1500		