

### FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

### MAXIMUM RATINGS

Ratings	Symbol	2N5954	2N5955	2N5956	Unit
Collector-Emitter Voltage	$V_{CE0}$	-80	-60	-40	Vdc
Collector-Base Voltage	$V_{CBO}$	-90	-70	-50	Vdc
Emitter-Base Voltage	$V_{EBO}$	-5.0			Vdc
Collector Current	$I_C$	-6.0			Adc
Base Current	$I_B$	-2.0			
Total Power Dissipation $T_C = 25^\circ\text{C}$	$P_D$	40			W
Junction Temperature	$T_J$	150			$^\circ\text{C}$
Storage Junction Temperature Range	$T_{stg}$	-65 to +200			$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	4.3			$^\circ\text{C}/\text{W}$

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Characteristics	Symbol	Min.	Max.	Unit
<b>OFF CHARACTERISTICS</b>				
<b>Collector-Emitter Sustaining Voltage</b> $I_C = 10\text{mA}$ , $I_B = 0$	2N5954 2N5955 2N5956	$V_{CE0(sus)}$	-80 -60 -40	- - - Vdc
<b>Collector-Emitter Saturation Voltage</b> $I_C = -2\text{Adc}$ , $I_B = -0.2\text{ Adc}$ $I_C = -2.5\text{Adc}$ , $I_B = -0.25\text{ Adc}$ $I_C = -3\text{Adc}$ , $I_B = -0.3\text{ Adc}$	2N5954 2N5955 2N5956	$V_{CE(sat)}$	- - -	- -1.0 - Vdc
<b>Base Emitter On Voltage</b> $I_C = -2\text{Adc}$ , $V_{CE} = -4\text{V}$ $I_C = -2.5\text{Adc}$ , $V_{CE} = -4\text{V}$ $I_C = -3\text{Adc}$ , $V_{CE} = -4\text{V}$	2N5954 2N5955 2N5956	$V_{BE(on)}$	- - -	-2.0 -2.0 -2.0 Vdc
<b>Base Emitter On Voltage</b> $I_C = -6\text{Adc}$ , $V_{CE} = -4\text{V}$		$V_{BE(on)}$	-	-3.0 Vdc
<b>Collector Cutoff Current</b> $V_{CE} = -65\text{Vdc}$ , $I_B = 0$ $V_{CE} = -45\text{Vdc}$ , $I_B = 0$ $V_{CE} = -25\text{Vdc}$ , $I_B = 0$	2N5954 2N5955 2N5956	$I_{CEO}$	- - -	-1.0 -1.0 -1.0 mAdc
<b>Collector Cutoff Current</b> $V_{CE} = \text{Rated } V_{CE0}$ , $V_{BE(off)} = 1.5\text{V}$ $V_{CE} = \text{Rated } V_{CE0}$ , $V_{BE(off)} = 1.5\text{V}$ , $T_C = 125^\circ\text{C}$		$I_{CEV}$	- -	-0.1 -2.0 mAdc
<b>Emitter Cutoff Current</b> $V_{EB} = -5\text{Vdc}$ , $I_C = 0$		$I_{EBO}$	-	-0.1 mAdc

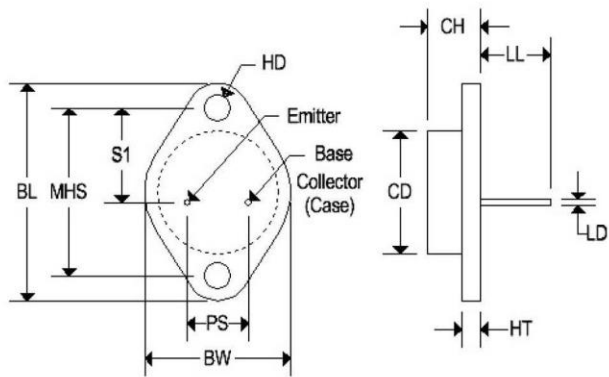
# 2N5954-2N5956

## PNP SILICON HIGH POWER TRANSISTORS

Characteristics		Symbol	Min.	Max.	Unit
<b>DC Current Gain</b> $I_C = -2A_{dc}, V_{CE} = -4.0 V_{dc}$ $I_C = -2.5A_{dc}, V_{CE} = -4.0 V_{dc}$ $I_C = -3A_{dc}, V_{CE} = -4.0 V_{dc}$ $I_C = -6A_{dc}, V_{CE} = -4.0 V_{dc}$	2N5954	$h_{FE}$	-	-	-
	2N5955		20	100	
	2N5956		-	-	
	All devices		5	-	
<b>Transition Frequency</b> $I_C = 1A_{dc}, V_{CE} = -4V_{dc}, f = 1MHz$		$f_T$	5	-	MHz

### MECHANICAL CHARACTERISTICS

<b>Case</b>	TO-66
<b>Marking</b>	Alpha-numeric
<b>Polarity</b>	See below



Dim	TO-66			
	Inches		Millimeters	
	Min	Max	Min	Max
BL	1.205	1.280	30.60	32.50
CD	0.445	0.557	11.303	14.148
CH	0.257	0.284	6.540	7.220
LL	0.374	0.413	9.500	10.50
BW	0.680	0.727	17.26	18.46
LD	0.030	0.036	0.760	0.920
HT	0.054	0.065	1.380	1.650
MHS	0.951	0.976	24.16	24.78
S1	0.545	0.614	13.84	15.60
HD	0.131	0.154	3.320	3.920
PS	0.191	0.210	4.860	5.340