

High-reliability discrete products and engineering services since 1977

2N6259

SILICON NPN TRANSISTOR

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

Parameter	Symbol	2N6259	Unit
Collector-base voltage	V _{CBO}	170	V
Collector-emitter voltage	V _{CEO}	150	V
Emitter-base voltage	V _{EBO}	7.0	V
Collector current – continuous	Ic	16	Α
Collector current – peak	Ісм	30	Α
Base current – continuous Peak	I _B	4.0 15	А
Total power dissipation Derate above 25°C	P _D	150 0.857	W W/°C
Junction and storage temperature range	T _J , T _{stg}	-65 to 200	°C
Thermal resistance, junction to case	R _{eJC}	1.17	°C/W

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Parameter	Symbol	O and the same	2SC1325A		
		Conditions	Min	Max	Unit
Collector-emitter voltage sustaining voltage(1)	V _{CEO(sus)}	I _C = 100mA, I _B = 0	150	-	٧
Collector cutoff current	I _{CEO}	V _{CE} = 130V, I _B = 0	-	10	mA
Collector cutoff current	I _{CEX} V _{CE} = 150V, V _{BE(off)} = 1.5V		-	2.0	mA
Collector cutoff current	I _{CBO}	V _{CE} = 150V, I _E = 0	-	2.0	mA
Emitter cutoff current	I _{EBO}	V _{EB} = 7V, I _C = 0	-	5.0	mA
DC current gain ⁽¹⁾	h _{FE}	h_{FE} $I_C = 8.0A, V_{CE} = 2V$ $I_C = 16A, V_{CE} = 2V$		60 -	1
Collector-emitter saturation voltage ⁽¹⁾	V _{CE(sat)}	I _C = 8.0A, I _B = 800mA I _C = 16A, V _{CE} = I _B = 3.2A		1.0 2.5	V
Base-emitter on voltage ⁽¹⁾	V _{BE(on)}	$I_C = 8.0A$, $V_{CE} = 2.0V$	-	2.0	٧

Note 1: Pulse test: pulse width = 300μ s, duty cycle = 2%.



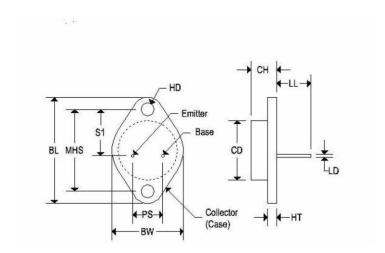
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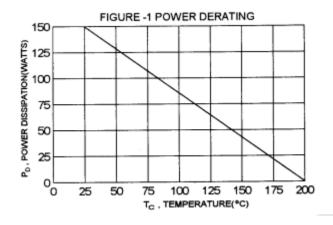
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MECHANICAL CHARACTERISTICS

Case:	TO-3
Marking:	Alpha-Numeric
Polarity:	See below



	TO-3					
	Inches		Millimeters			
	Min	Max	Min	Max		
CD	1	0.875		22.220		
CH	0.250	0.380	6.860	9.650		
HT	0.060	0.135	1.520	3.430		
BW	•	1.050	*	26.670		
HD	0.131	0.188	3.330	4.780		
LD	0.038	0.043	0.970	1.090		
LL	0.312	0.500	7.920	12.700		
BL	1.550 REF		39.370 REF			
MHS	1.177	1.197	29.900	30.400		
PS	0.420	0.440	10.670	11.180		
S1	0.655	0.675	16.640	17.150		





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