

isc Silicon PNP Power Transistor

2SB1159

DESCRIPTION

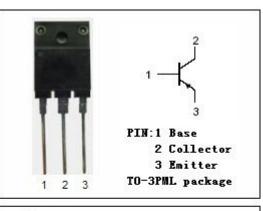
- Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -140V(Min)
- Good Linearity of h_{FE}
- Wide Area of Safe Operation
- Complement to Type 2SD1714
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

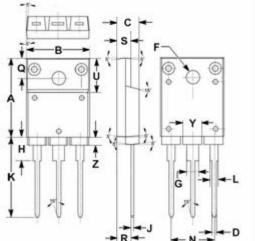
APPLICATIONS

• Designed for high power amplifier applications

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-140	V	
Vceo	Collector-Emitter Voltage	-140	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-7	A	
I _{CP}	Collector Current-Pulse	-12	А	
Pc	Collector Power Dissipation @ Tc=25℃	80	W	
	Collector Power Dissipation @ $T_a=25^{\circ}C$	3		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





	mm	
DIM	MIN	MAX
Α	19.90	20.10
В	15.75	16.10
С	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
Η	5.90	6.10
J	0.595	0.70
Κ	21.10	22.50
L	1.90	2.25
Ν	10.80	11.00
0	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Z	1.90	2.10

isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	мах	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-2.0	V
V _{BE(on)}	Base -Emitter On Voltage	I _C = -5A; V _{CE} = -5V			-1.8	V
Ісво	Collector Cutoff Current	V _{CB} = -140V; I _E = 0			-50	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V; I _C = 0			-50	μA
h _{FE-1}	DC Current Gain	Ic= -20mA; Vce= -5V	20			
h _{FE-2}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		200	
h _{FE-3}	DC Current Gain	I _C = -5A; V _{CE} = -5V	20			

h_{FE-2}Classifications

Q	S	Р
60-120	80-160	100-200

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