

isc Silicon NPN Power Transistor

2SC5359

DESCRIPTION

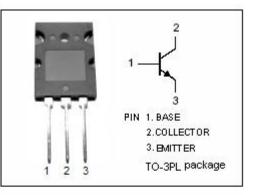
- High Current Capability
- High Power Dissipation
- High Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 230V(Min)
- Complement to Type 2SA1987
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

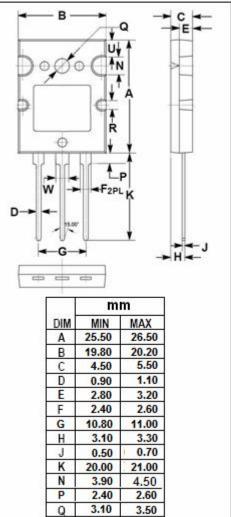
APPLICATIONS

- Power amplifier applications
- Recommend for 100W high fidelity audio frequency
 amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	230	V	
V _{CEO}	Collector-Emitter Voltage	230	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	15	A	
I _B	Base Current-Continuous	1.5	A	
Pc	Collector Power Dissipation @ T _C =25°C	180	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range -55~150 °C		°C	





isc Website: www.iscsemi.cn

1.90

3.90

2.90

2.60

4.10

3.25

R

U

W

1



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V(BR)CEO	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	230			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8.0A; I _B = 0.8A			3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 7A; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 230V; I _E = 0			5	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	μA
hfe-1	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		160	
h _{FE-2}	DC Current Gain	I _C = 7A; V _{CE} = 5V	35			
Сов	Output Capacitance	I _E =0; V _{CB} = 10V; f _{test} = 1.0MHz		200		pF
fT	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		30		MHz

h_{FE-1} Classifications

R	0
55-110	80-160



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