

Silicon NPN Power Transistors

2SC5359

DESCRIPTION

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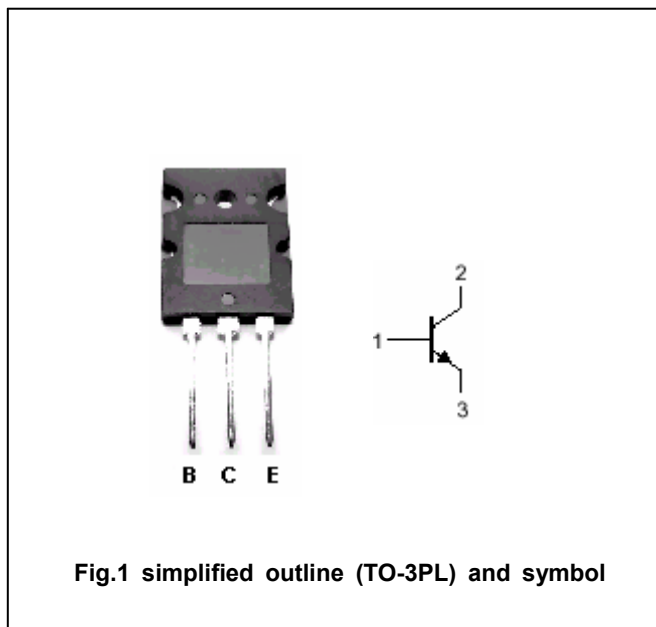
- With TO-3PL package
- Complement to type 2SA1987

APPLICATIONS

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

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter



Absolute maximum ratings(Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	230	V
V _{CEO}	Collector-emitter voltage	Open base	230	V
V _{EBO}	Emitter-base voltage	Open collector	5	V
I _C	Collector current		15	A
I _B	Base current		1.5	A
P _C	Collector power dissipation	T _C =25°C	180	W
T _j	Junction temperature		150	°C
T _{stg}	Storage temperature		-55~150	°C

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CHARACTERISTICS

T_j=25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =50mA; I _B =0	230			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =8 A; I _B =0.8A		0.4	3.0	V
V _{BE}	Base-emitter voltage	I _C =7A; V _{CE} =5V		1.0	1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =230V; I _E =0			5	μA
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0			5	μA
h _{FE-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			
f _T	Transition frequency	I _C =1A; V _{CE} =5V		30		MHz
C _{OB}	Output capacitance	I _E =0; V _{CB} =10V; f=1MHz		200		pF

◆ h_{FE-1} classifications

R	O
55-110	80-160

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PACKAGE OUTLINE

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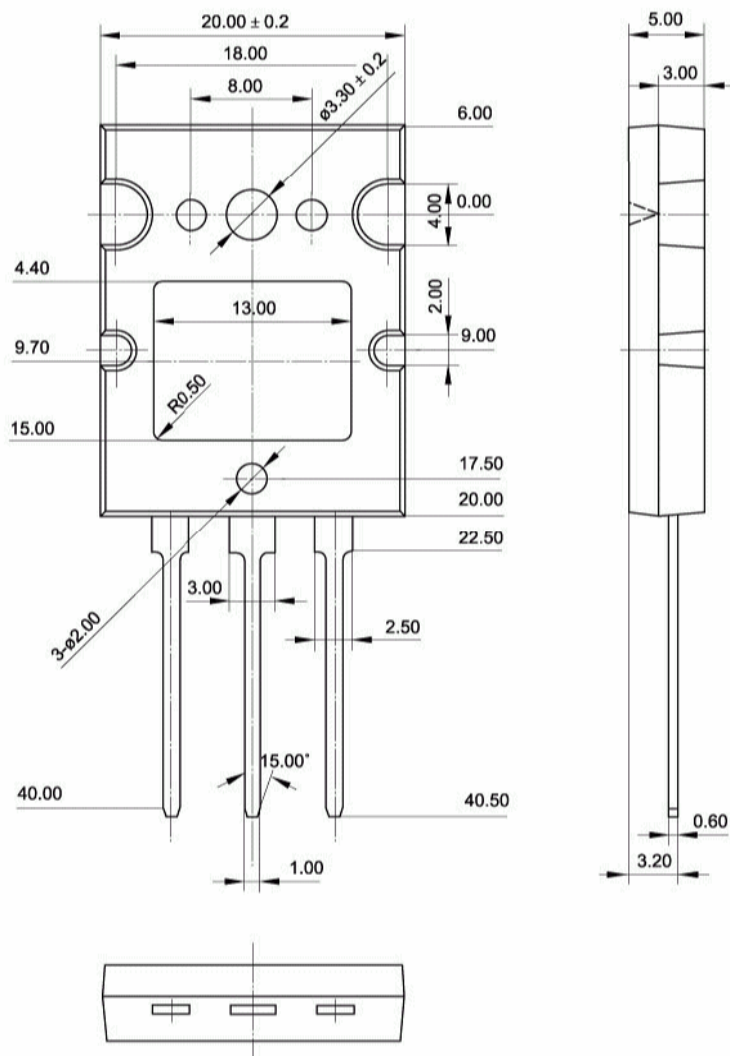


Fig.2 Outline dimensions (unindicated tolerance:±0.50mm)

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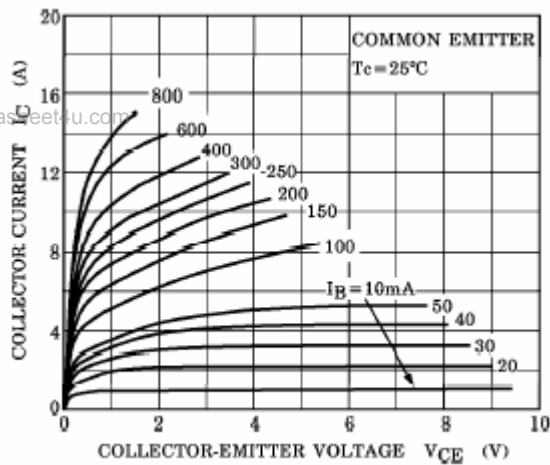


Fig.3 Static Characteristic

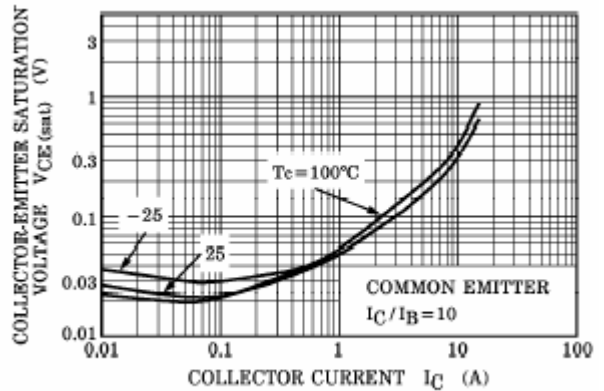


Fig.4 Collector-Emitter Saturation Voltage

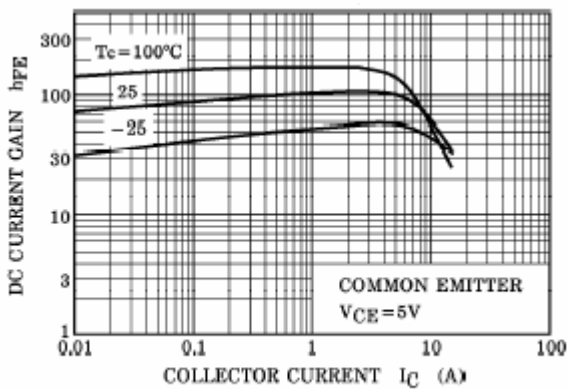


Fig.5 DC current Gain

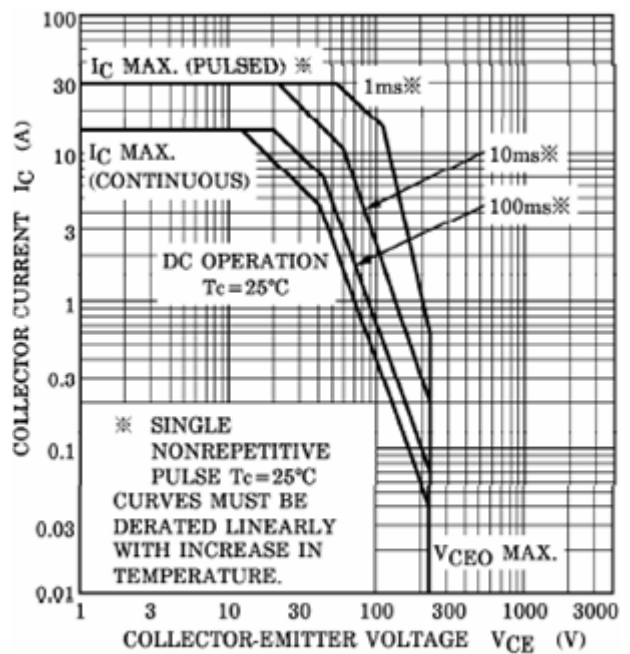


Fig.6 Safe Operating Area