

isc Silicon NPN Power Transistor

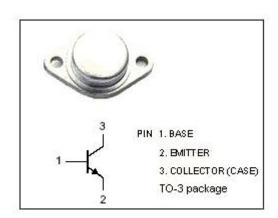
2SC2707

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 180V(Min.)
- High Power Dissipation
- Complement to Type 2SA1147
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

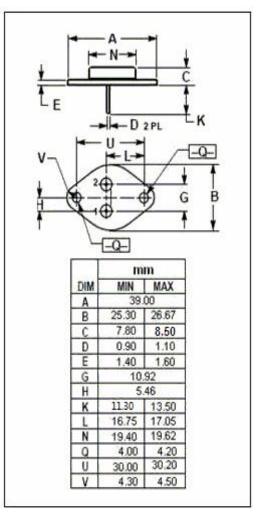
APPLICATIONS

 Designed for power switching amplifier and general purpose applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	180	V	
Vceo	Collector-Emitter Voltage	180	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	15	Α	
lв	Base Current-Continuous	5	Α	
Pc	Collector Power Dissipation @T _C =25°C	150	W	
T _j	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature	-65~150	$^{\circ}$	





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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	180			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	180			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 1A			3.0	V
І _{СВО}	Collector Cutoff Current	V _{CB} = 180V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	μА
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		160	
h _{FE-2}	DC Current Gain	I _C = 5A ; V _{CE} = 5V	30			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 12V	10			MHz

Notice:

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