

isc Silicon PNP Power Transistor

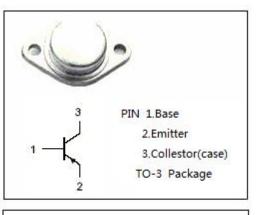
2SA1147

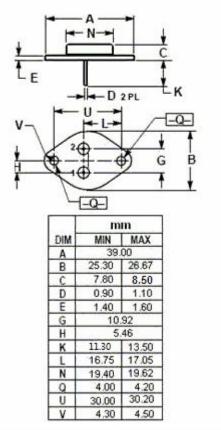
DESCRIPTION

- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -180V(Min.)
- High Power Dissipation
- Complement to Type 2SC2707
- 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°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-180	V	
V _{CEO}	Collector-Emitter Voltage	-180	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-15	A	
lB	Base Current-Continuous	-5	А	
Pc	Collector Power Dissipation $@T_c=25^{\circ}C$	150	W	
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-65~150	°C	



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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	μA
Іево	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μ Α
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			
fT	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -12V		60		MHz

NOTICE:

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