

isc Silicon NPN Power Transistor

2SC1141

DESCRIPTION

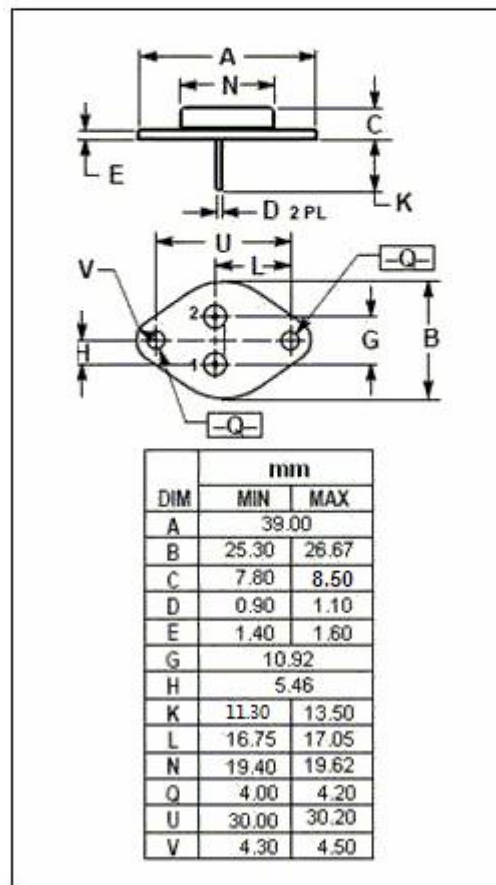
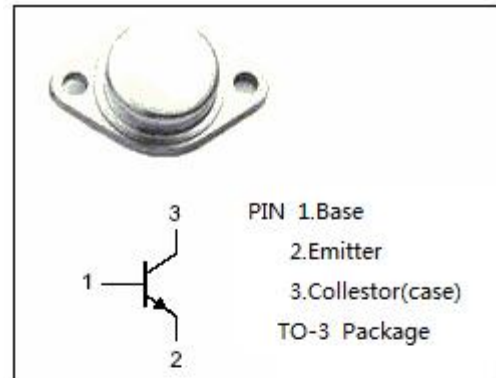
- With TO-3 Package
- High voltage
- Wide area of safe operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- For power amplifier applications

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	600	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current-Continuous	15	A
P _C	Collector Power Dissipation	150	W
T _J	Junction Temperature	200	°C
T _{stg}	Storage Temperature Range	-65~200	°C



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			1.6	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	300			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7			V
h _{FE-1}	DC Current Gain	I _C =1.0A; V _{CE} = 5V	15		50	
h _{FE-2}	DC Current Gain	I _C =7.5A; V _{CE} = 5V	10		25	
f _T	Current-Gain—Bandwidth Product	I _C = 1.0A; V _{CE} = 12V; f _{test} = 1MHz	10			MHz

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