



isc Silicon NPN Power Transistor

DESCRIPTION

- With TO-66 Package
- · Low collector saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

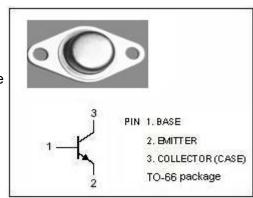
Designed for switching and wide-band amplifier applications

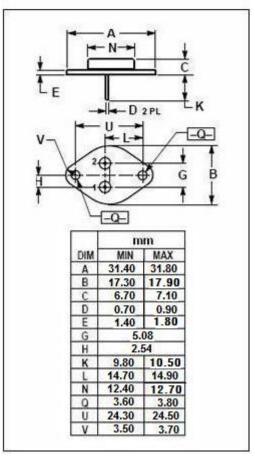
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	6	Α
Pc	Collector Power Dissipation @ Tc=25°C	40	W
TJ	Junction Temperature	-65~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.125	°C/W







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2SC1444

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1A		1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 80V;I _B = 0		100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C =0		100	uA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 4V	30		
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 4V	15		
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} =10V, f _{test} = 1.0MHz	10		MHz



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