

isc Silicon NPN Power Transistor

2SC1441

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

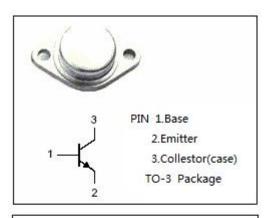
· Power amplifier applications

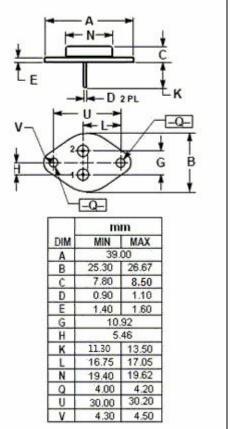
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	200	v	
V_{CEO}	Collector-Emitter Voltage	200	v	
V_{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	15	А	
Pc	Collector Power Dissipation	150	W	
TJ	Junction Temperature	-65~200	°C	
T _{stg}	Storage Temperature Range	-65~200	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	1.17	°C/W	







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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =10A; I _B = 1A			2.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =10A; I _B =1A			2.5	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	200			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
h _{FE}	DC Current Gain	I _C =5A; V _{CE} = 4V	20			
Ісво	Collector Cutoff Current	V _{CB} = 200V ; I _E = 0			100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} =5V; I _C = 0			100	uA



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