

isc Silicon NPN Power Transistor

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

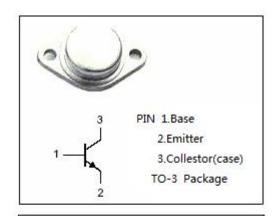


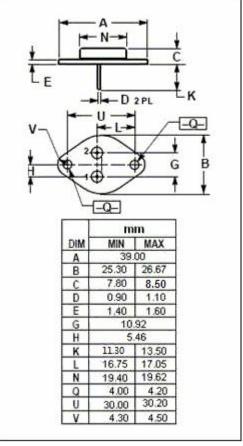
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	600	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	5	А
Pc	Collector Power Dissipation	50	W
TJ	Junction Temperature	-65~200	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-65~200	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.5	°C/W







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2SC1433

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =5A; I _B = 1A			1.0	٧
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =5A; I _B =1A			2.0	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	400			٧
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
h _{FE}	DC Current Gain	I _C =1A; V _{CE} = 5V	20		300	
Ісво	Collector Cutoff Current	V _{CB} = 600V ; I _E = 0			100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} =5V; I _C = 0			100	uA

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