

isc Silicon NPN Power Transistor

2SC1579

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

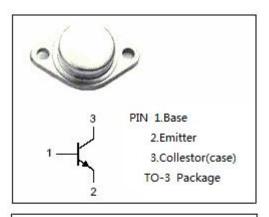
· Power amplifier applications

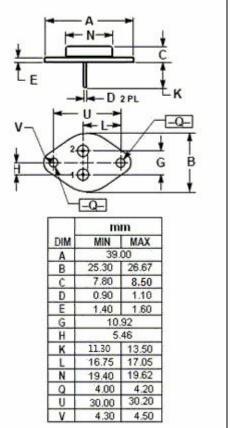
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	500	v
V _{CEO}	Collector-Emitter Voltage	400	v
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	15	А
Pc	Collector Power Dissipation 150		W
TJ	Junction Temperature	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	℃/W	





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	мах	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =10A; I _B = 2A			1.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =10A; I _B = 2A			2.0	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	400			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7			V
h _{FE}	DC Current Gain	I _C =5A; V _{CE} = 4V	10		25	
Ісво	Collector Cutoff Current	V _{CB} = 500V ; I _E = 0			100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} =7V; I _C = 0			100	uA

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