

isc Silicon NPN Power Transistor

2SC1308

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

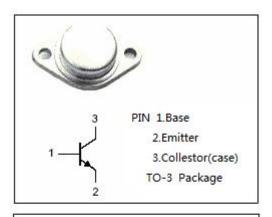
· For TV horizontal deflection output application

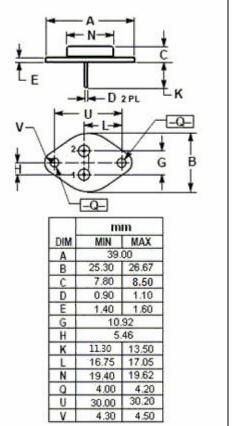
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	v
V _{CEO}	Collector-Emitter Voltage	400	v
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	7	А
Pc	Collector Power Dissipation	50	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	3.5	°C/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 =6A; I _B = 1.2 A			5	v
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =6A; I _B = 1.2 A			1.5	v
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	400			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			v
h _{FE-1}	DC Current Gain	I _C =1A; V _{CE} = 5V	8			
h _{FE-2}	DC Current Gain	Ic=4A; V _{CE} = 5V	3			
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μA

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