



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

· For clocked voltage converters

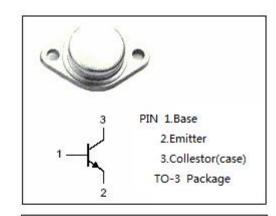


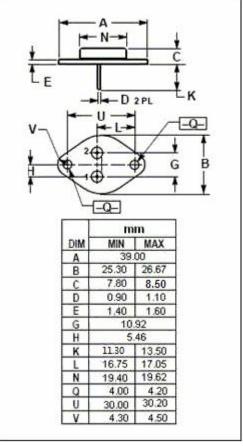
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	10	Α
Pc	Collector Power Dissipation	100	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	°C/W	







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2SC1227

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{\text{CE}(\text{sat})}$	Collector-Emitter Saturation Voltage	I _C =5A; I _B = 0.5A			1.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =5A; I _B = 0.5A			1.5	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	200			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} = 5V	50			
Ісво	Collector Cutoff Current	V _{CB} = 300V ; I _E = 0			20	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			20	μА

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