

isc Silicon NPN Power Transistor

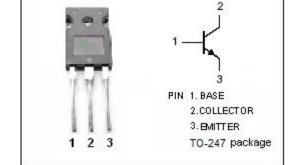
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DESCRIPTION

- · High Voltage
- · High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Converters
- Inverters
- · Switching regulators
- Motor control systems

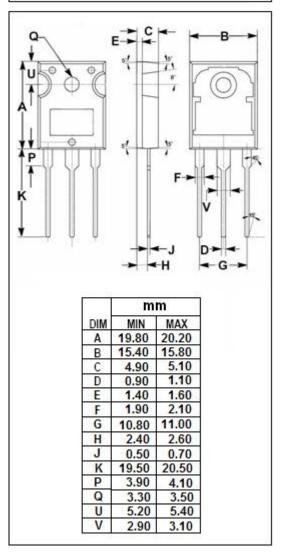


ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1000	V
V _{CEO}	Collector-Emitter Voltage 450		V
V _{EBO}	Emitter-Base Voltage	9	V
Ic	Collector Current-Continuous	ıs 5	
I _{CM}	Collector Current-Peak	10	Α
I _B	Base Current	2	Α
Івм	Base Current-Peak	4	Α
Pc	Collector Power Dissipation @T _C =25°C	100	W
T _j	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
Rth j-c	Thermal Resistance,Junction to Case	1.25	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	450			٧
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.4	V
I _{CES}	Collector Cutoff Current	V _{CE} =RatedV _{CES} ;V _{BE} = 0 V _{CE} =RatedV _{CES} ;V _{BE} = 0;T _C =125°C			1 2	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 9V; I _C = 0			10	mA
h _{FE-1}	DC Current Gain	I _C = 5mA; V _{CE} = 5V	10		35	
h _{FE-2}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	10		35	



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