

isc Silicon NPN Power Transistor

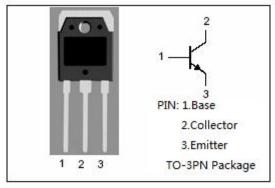
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DESCRIPTION

- · 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

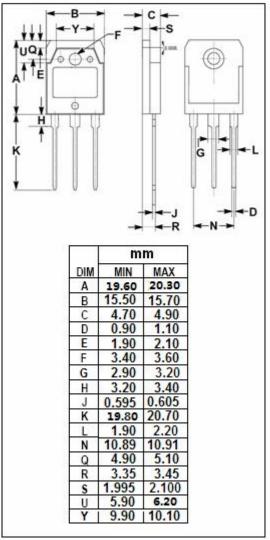


ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	850	V	
V _{CEO}	Collector-Emitter Voltage	400	V	
V _{EBO}	Emitter-Base Voltage	9	V	
Ic	Collector Current-Continuous	5	А	
I _{CM}	Collector Current-Peak	10	А	
I _B	Base Current	2	А	
I _{BM}	Base Current-Peak	4	А	
Pc	Collector Power Dissipation @T _C =25°C	100	W	
T _j	Junction Temperature	150		
T _{stg}	Storage Temperature Range -65~150		$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
R _{th j-c}	Thermal Resistance, Junction to Case		°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	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 3A; I _B = 0.6A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.4	V
I _{CES}	Collector Cutoff Current	V_{CE} =Rated V_{CES} ; V_{BE} = 0 V_{CE} =Rated V_{CES} ; V_{BE} = 0; T_{C} =125°C			1.0 2.0	mA
I _{EBO}	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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