

isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 350V(Min.)
- · High Speed Switching
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation





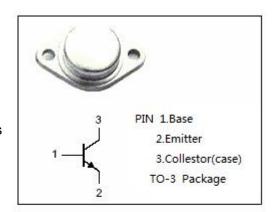
• Designed for use in off-line power supplies and are also well suited for use in a wide range of inverter or converter circuits and pulse-width-modulated regulators.

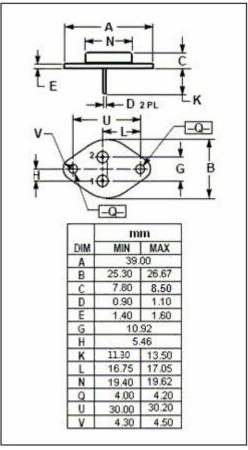
ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
Vces	Collector-Emitter Voltage	750	V	
V _{CEO}	Collector-Emitter Voltage	350	٧	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	6	А	
I _{CM}	Collector Current-Peak	8	А	
I _B	Base Current	3	А	
Pc	Collector Power Dissipation @T _C =25°C	60	W	
T _j	Junction Temperature 175		$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.67	°C/W







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BUX97

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	350			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.2A			1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 1.25A			3.0	V
V _{BE(sat)-1}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.2A			1.3	V
V _{BE(sat)-2}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 1.25A			1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 750V; I _E = 0 V _{CB} = 750V; I _E = 0;T _C =150°C			1.0 3.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	10		70	



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