

isc Silicon NPN Power Transistor

BUX98B

DESCRIPTION

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

APPLICATIONS

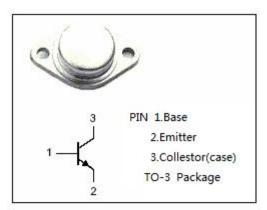
- High frequency and efficiency converters
- · Linear and switching industrial equipment

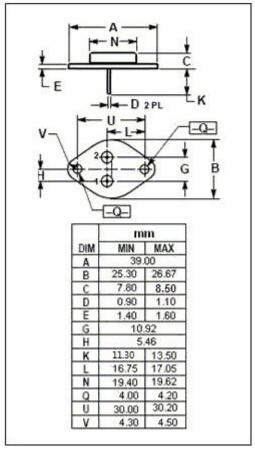
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1150	V
V _{CEO}	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	30	Α
I _{CM}	Collector Current-peak (tp <5 ms)	60	Α
I _B	Base Current-Continuous	8	Α
I _{BM}	Base Current-peak (tp <5 ms)	30	Α
Pc	Collector Power Dissipation @T _C =25 ℃	250	W
T _j	Junction Temperature	200	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~200	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.7	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	600			V
V _{CER(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 1mA	1150			V
☆V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 16A ;I _B = 3.2A			1.5	V
☆V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 24A ;I _B = 5A			5.0	V
⇔V _{BE(sat)}	Base-Emitter Saturation Voltage	Ic= 16A ;I _B = 3.2A			1.6	V
Ісво	Collector Cutoff Current	V _{CB} =1150V; I _E = 0 V _{CB} =1150V; I _E = 0 T _C =125℃			0.4 4	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 600V; I _B = 0			2	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			2	mA
h _{FE}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	15		50	

[☆] Pulsed: Pulse duration = 300 ms, duty cycle = 1.5 %

### NOTICE:

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