

isc Silicon NPN Power Transistor

BUX61

DESCRIPTION

- · Low Saturation Voltage
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

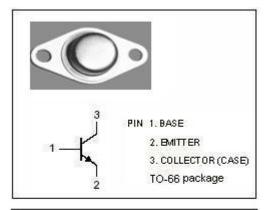
· Designed for use in high frequency and efficiency converters, switching regulators and motor control

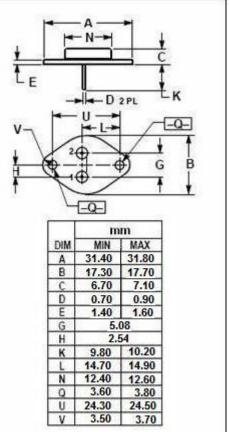
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	250	V			
V _{CEO}	Collector-Emitter Voltage	200	V			
V _{EBO}	Emitter-Base Voltage	6	V			
Ic	Collector Current-Continuous	8	Α			
Pc	Collector Power Dissipation@Tc=25°C	70	W			
TJ	Junction Temperature	200	°C			
T _{stg}	Storage Temperature	-65~200	°C			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	5.0	°C/W	







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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
Vceo(sus)	Collector-Emitter Sustaining Voltage	I _C =50mA ; I _B =0	200		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 0.8A		1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 0.8A		2.0	V
Iceo	Collector Cutoff Current	V _{CE} = 200V; I _B =0		2	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = 250V, I _E =0		1.0	mA
Іево	Emitter Cutoff Current	V _{EB} = 6V; I _C =0		0.5	mA
hfe	DC Current Gain	I _C = 3A ; V _{CE} = 4V	20	60	
fT	Current-Gain—Bandwidth Product	I _C =0.5A;V _{CE} =10V	8		MHz



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