

isc Silicon NPN Power Transistor

BUX60

DESCRIPTION

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

APPLICATIONS

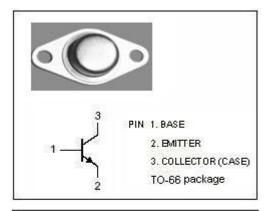
· Designed for use in high frequency and efficiency converters, switching regulators and motor control

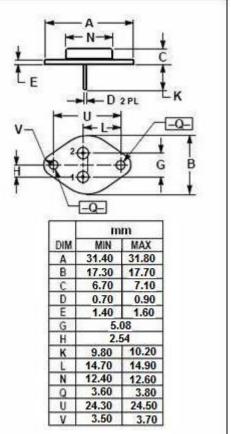
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER VALUE		UNIT
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	or-Emitter Voltage 125	
V _{EBO}	Emitter-Base Voltage	6	
Ic	Collector Current-Continuous	8	А
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







isc Silicon NPN Power Transistor

BUX60

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	125		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} = 125V; I _B =0		2	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = 160V, I _E =0		1.0	mA
Іево	Emitter Cutoff Current	V _{EB} = 6V; I _C =0		0.5	mA
h _{FE}	DC Current Gain	I _C = 4A ; V _{CE} = 4V	20	60	
fT	Current-Gain—Bandwidth Product	I _C =0.5A;V _{CE} =10V	8		MHz



NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.