

isc Silicon NPN Power Transistor

BUX47A

DESCRIPTION

- Collector-Emitter Sustaining Voltage-: V_{CEO(SUS)}= 450V (Min)
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

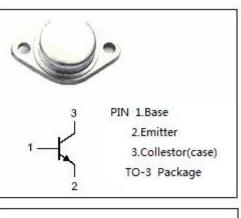
Designed for high voltage, fast switching applications.

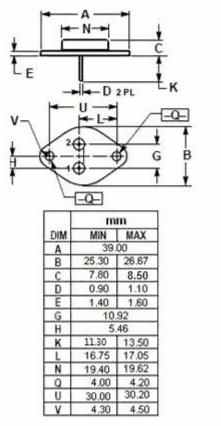
Absolute maximum ratings(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT				
VCER	Collector-Emitter Voltage (R_{BE} = 10 Ω)	1000	V				
V _{CES}	Collector-Emitter Voltage (V _{BE} = 0)	900	V				
V_{CEO}	Collector-Emitter Voltage	450	V				
V _{EBO}	Emitter-Base Voltage	7	V				
I _C	Collector Current-Continuous	9	А				
I _{CM}	Collector Current-Peak tp< 5ms	15	А				
IB	Base Current-Continuous	8	А				
I _{BM}	Base Current-peak t _p < 5ms	10	А				
Pc	Collector Power Dissipation @T _c =25°C	125	W				
Tj	Junction Temperature		°C				
T _{stg}	Storage Temperature Range	-65~175	°C				

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.2	°C/W





isc website: www.iscsemi.com



isc Silicon NPN Power Transistor

BUX47A

ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!^{\circ}\!\!^{\circ}\!\!^{\circ}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =50mA; I _B = 0	450		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 50mA; I _C = 0	7	30	v
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A		1.5	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 2.5A		3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A		1.6	V
Ісво	Collector Cutoff Current	V _{CB} =850V; I _E = 0 V _{CB} =850V; I _E = 0; T _C =125°C		0.15 1.5	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		1.0	mA



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.