

isc Silicon NPN Power Transistor

BUW12W

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 400V(Min.)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 1.5V(Max.)@I_C= 6A
- · High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

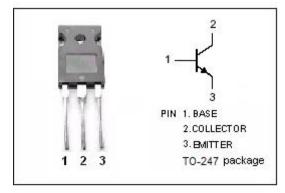
 Designed for high voltage, fast switching industrial applications.

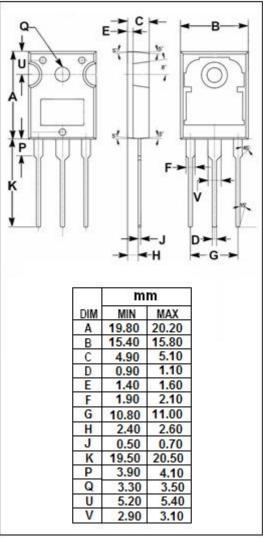


SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	850	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	9	V
Ic	Collector Current-Continuous	inuous 8	
I _{CM}	Collector Current-Peak	20	Α
I _B	Base Current	4	А
I _{BM}	Base Current-Peak	6	А
Pc	Collector Power Dissipation @Tc=25°C	125	W
T _j	Junction Temperature	e 150	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
Rth j-c	Thermal Resistance,Junction to Case	1.0	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.5	V
I _{CES}	Collector Cutoff Current	V _{CE} =V _{CES} ; V _{BE} = 0 V _{CE} =V _{CES} ; V _{BE} = 0; T _C =125°C			1.0 3.0	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 9V; I _C = 0			10	mA
h _{FE-1}	DC Current Gain	I _C = 10mA; V _{CE} = 5V	10		35	
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 5V	10		35	



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