

isc Silicon NPN Power Transistor

BUW17

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)}= 400V(Min.)
- High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

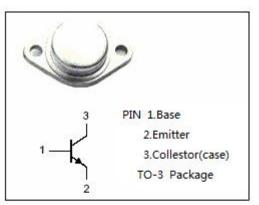
• Designed for high voltage, fast switching applications.

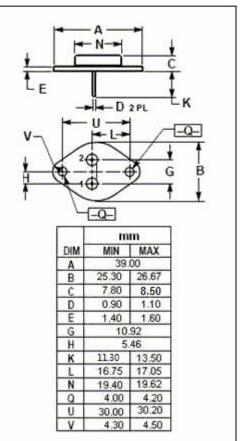
SYMBOL	PARAMETER	VALUE	UNIT
V _{сво}	Collector-Base Voltage	450	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current-Continuous	15	А
I _{CM}	Collector Current-Peak	20	A
IB	Base Current-Continuous	3	А
PT	Total Power Dissipation @ T _c ≤25℃	100	W
TJ	Junction Temperature	200	Ĉ
T _{stg}	Storage Temperature Range	-65~200	Ĉ

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.4	°C/W







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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
Vceo(sus)	Collector-Emitter Sustaining Voltage	I _C =50mA; I _B = 0	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 2A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 10A; I _B = 2A			2.0	V
I _{EBO}	Emitter cut-off current	V _{EB} =7V; I _C =0			1	mA
I _{CES}	Collector Cutoff Current	V _{CE} = 450V;V _{BE} = 0 V _{CE} = 450V;V _{BE} = 0; T _C = 125℃			0.5 3.0	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	15		50	

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