

isc Silicon NPN Power Transistor

BUW24

DESCRIPTION

- Collector-Emitter Breakdown Voltage-:V_{(BR)CEO}= 350V(Min.)
- · High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS



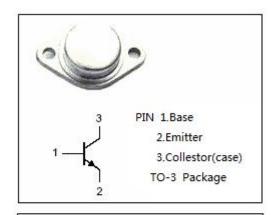
• Designed for use in switching mode power supply.

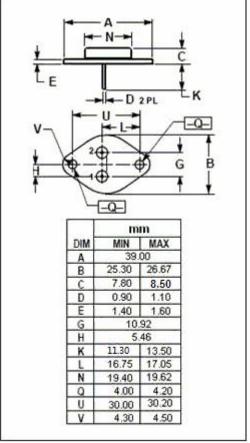
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	450	V
V _{CEO}	Collector-Emitter Voltage	350	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	10	Α
I _B	Base Current-Continuous	3	Α
P _T	Total Power Dissipation @ T₀≤25°C	100	W
TJ	Junction Temperature 200		$^{\circ}$
T _{stg}	Storage Temperature Range	-65~200	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	350			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.2	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 450V; I _E = 0			0.1	mA
I _{EBO}	Emitter Cutoff current	V _{EB} =7V; I _C = 0			0.1	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	10		80	
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 5V	15			



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