

isc Silicon NPN Power Transistor

BU118

DESCRIPTION

- Excellent Safe Operating Area
 V_{CE}:200V
 I_{CM}:7A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

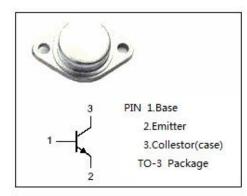
APPLICATIONS

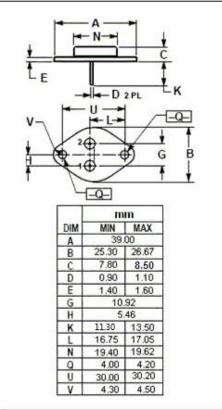
Designed for general-purpose switching and amplifier applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	400	V
V _{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage		V
Ic	Collector Current-Continuous	7	Α
lв	Base Current-Continuous 4		А
Pc	Collector Power Dissipation@T _C =25℃ 60		W
T _J , T _{stg}	Operating and Storage Junction Temperature Range -65~+150		$^{\circ}$

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.08	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO}	Collector-Emitter Sustaining Voltage	I _C =30mA ; I _B =0	200		V
V _{CBO}	Collector-Base Sustaining Voltage	I _C =1mA ; I _B =0	400		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		1.0	V
V _{BE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		1.3	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 5A; V _{CE} = 4V		1.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 200V; I _B =0		1.0	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 6.0V; I _C =0		0.1	mA
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 5V	20	150	

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