

isc Silicon NPN Power Transistor

BU128

DESCRIPTION

- · Excellent Safe Operating Area
- · Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)}$ = 1.0 V(Max)@ I_C = 5A
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 200V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

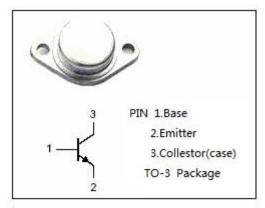


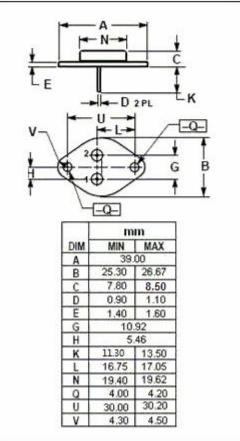
APPLICATIONS

Designed for general-purpose switching and amplifier applications



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
Vceo	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	10	Α
Ісм	Collector Current-Peak	15	Α
I _B	Base Current	4	Α
Pc	Collector Power Dissipation@T _C =25℃	62	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBO L	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	200			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.2	V
Ісво	Collector Base Cutoff Current	V _{CB} =300V; I _E = 0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			0.1	mA
h _{FE}	DC Current Gain	Ic= 5A; Vc== 1V	40			
f⊤	Current Gain-Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		60		MHz
t _{off}	Turn-Off Time	I _C = 5A; I _B = 0.5A		0.4		μS

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