



isc Silicon NPN Power Transistor

2N3240

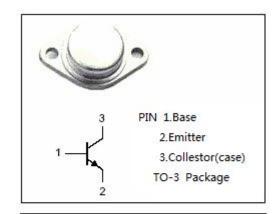
DESCRIPTION

- · Excellent Safe Operating Area
- · Low Collector-Emitter Saturation Voltage
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



APPLICATIONS

 Designed for general purpose high power switch and amplifier applications.

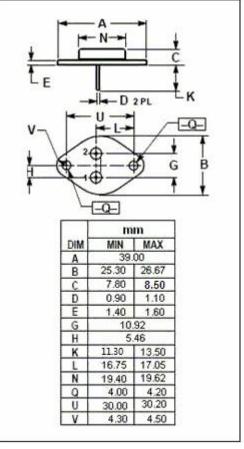


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	15	Α
Pc	Collector Power Dissipation@T _c =25 [°] C 150		W
TJ	Junction Temperature	175	$^{\circ}\!\mathbb{C}$
T _{stg}	Storage Temperature	-65~175	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.17	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =30mA; I _B = 0	160		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 1.33A		1	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 10A; V _{CE} = 10V		2	V
h _{FE}	DC Current Gain	I _C = 10A; V _{CE} = 10V	8.5	25	
f _T	Current Gain-Bandwidth Product	I _C = 0.5A; V _{CE} = 4V; f= 1.0MHz	1.0		MHz



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