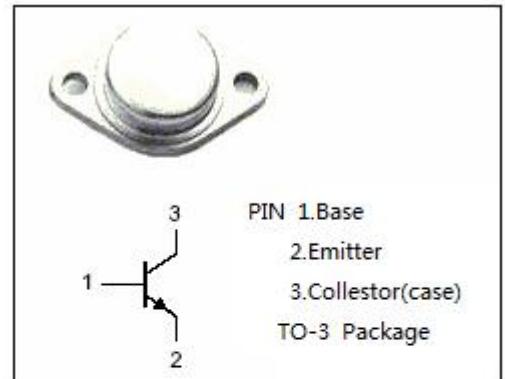


DESCRIPTION

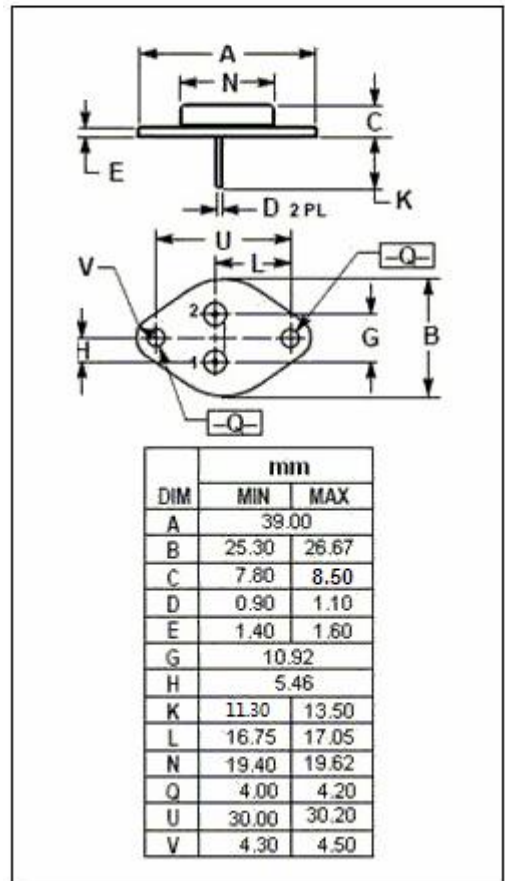
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 200V$ (Min)
- Wide area of safe operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in series regulators, power amplifiers, Inverters, deflection circuits, switching regulators, and high voltage bridge amplifiers..


ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V_{CEO}	Collector-Emitter Voltage	200	V
V_{EBO}	Emitter-Base Voltage	6	V
I_c	Collector Current-Continuous	3.5	A
P_c	Collector Power Dissipation	100	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$


THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.75	$^\circ C/W$

ELECTRICAL CHARACTERISTICS

 T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _c =3A; I _B = 0.3A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _c =3A; I _B = 0.3A			1.5	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _c = 25mA; I _B = 0	200			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _c = 0	6			V
h _{FE-1}	DC Current Gain	I _c =1A; V _{CE} = 5V	80		200	
h _{FE-2}	DC Current Gain	I _c =3A; V _{CE} = 5V	30			
I _{CBO}	Collector Cutoff Current	V _{CB} =200V ; I _E = 0			100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} =6V; I _c = 0			100	uA
f _T	Current-Gain—Bandwidth Product	I _c = 0.1A; V _{CE} = 10V; f _{test} = 1.0MHZ	5			MHz

NOTICE:

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