

isc Silicon NPN Power Transistor

DESCRIPTION

- DC Current Gain-h_{FE}= 40-120@I_C = 4A
- · Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)}$ = 1.0 V(Max)@ I_C = 5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS



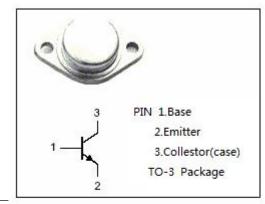
 Designed for use in horizontal deflection output stages of TV's and CRT's

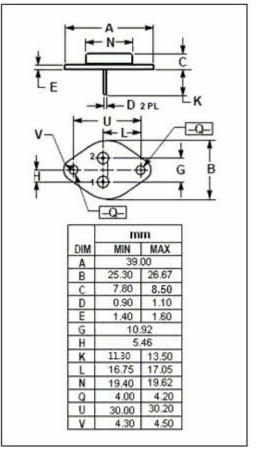
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	250	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	5	Α
I _{CM}	Collector Current-Peak	10	Α
I _B	Base Current	4	Α
Pc	Collector Power Dissipation @ T _C =25°C	100	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}\!\mathbb{C}$

THERMAL CHARACTERISTICS

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





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BD160

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA ;I _B = 0	250		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		1.0	٧
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 300V ; I _E = 0		1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0		1.0	mA
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 5V;	40	120	

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