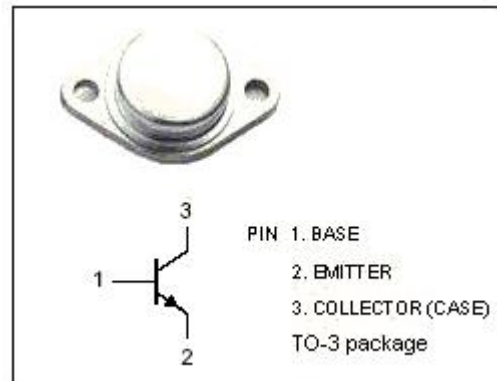


isc Silicon NPN Power Transistor
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DESCRIPTION

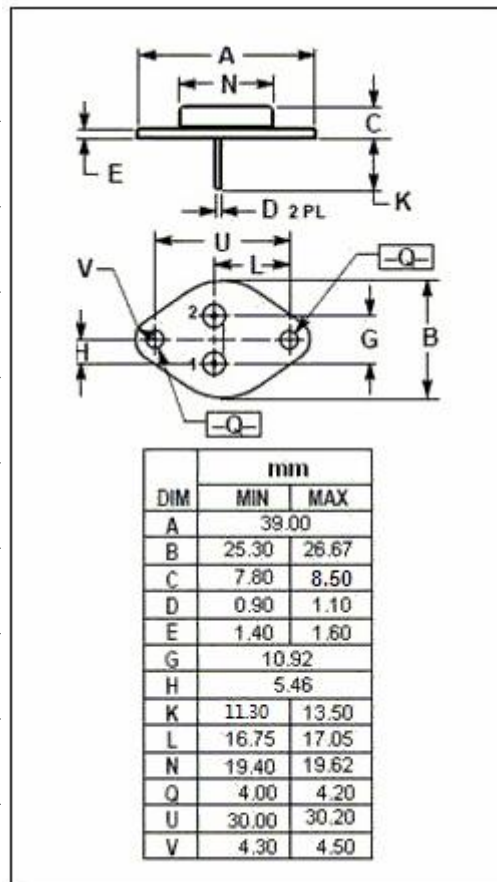
- High Breakdown Voltage-
: $V_{(BR)CBO} = 1500V(\text{Min})$
- High Switching Speed
- High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Ultrahigh-definition CRT display horizontal deflection output applications


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	700	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	10	A
I_{CP}	Collector Current-Peak	25	A
P_C	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	100	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor

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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA; I _B = 0	700		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 2A		5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 2A		1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0		10	μ A
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V; R _{BE} = 0		1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _C = 0		1.0	mA
h _{FE-1}	DC current gain	I _C = 1A ; V _{CE} = 5V	20	40	

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