

isc Silicon NPN Power Transistor**BU208A****DESCRIPTION**

- High Voltage- $V_{CEX} = 1500V(\text{Min.})$
- Collector Current- $I_C = 5.0A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

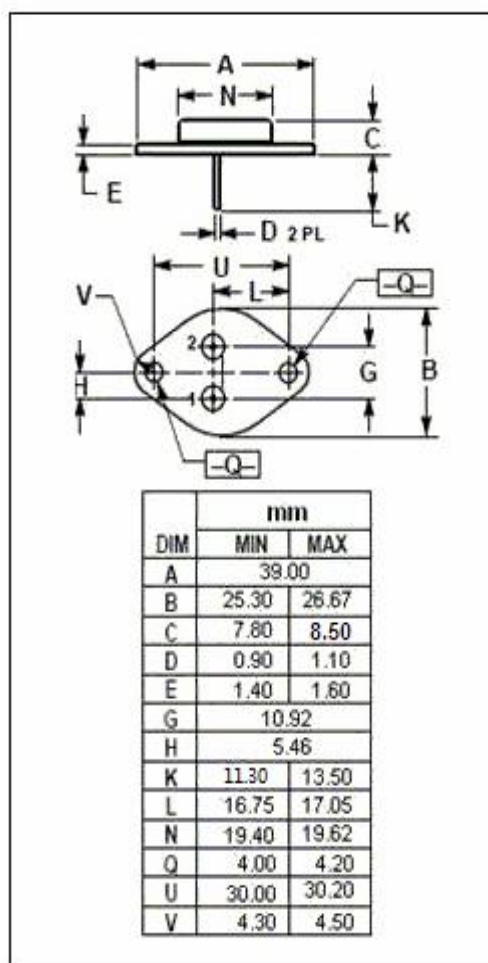
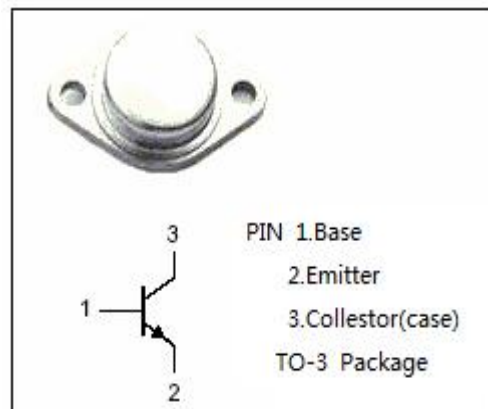
- Designed for use in large screen color deflection circuits .

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CEX}	Collector-Emitter Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	700	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	8	A
I_{CM}	Collector Current-Peak	7.5	A
I_B	Base Current-Continuous	2.5	A
P_C	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	150	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-65~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.64	$^\circ\text{C/W}$



isc Silicon NPN Power Transistor**BU208A****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	700			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4.5A; I _B = 2A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4.5A; I _B = 2A			1.5	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V; V _{BE} = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5.0V; I _C = 0			10	mA
h _{FE 1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8			
h _{FE}	DC Current Gain	I _C = 4.5A; V _{CE} = 5V	2.25			
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		125		pF
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V; f _{test} = 1MHz		4		MHz
t _f	Fall Time	I _C = 4.5A; I _B = 1.8A; L _B = 10 μH		1.0		μs

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