

isc Silicon NPN Power Transistor
BU415B
DESCRIPTION

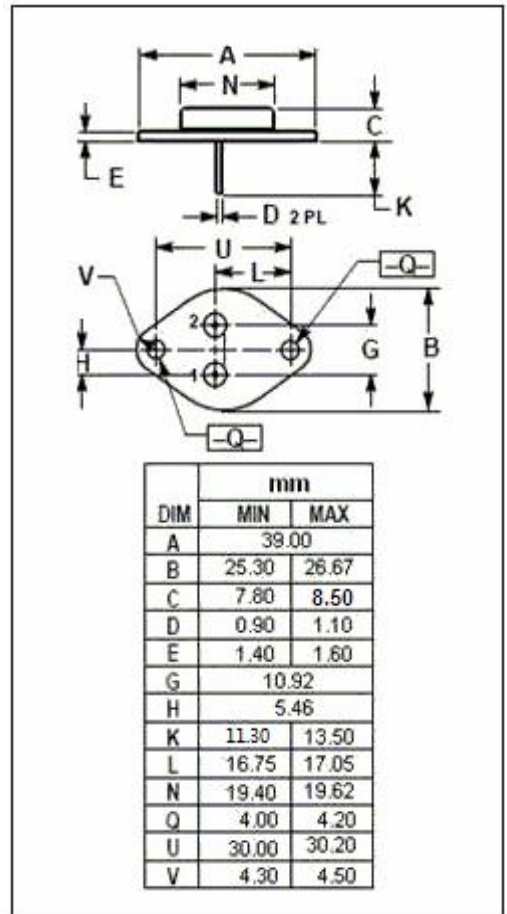
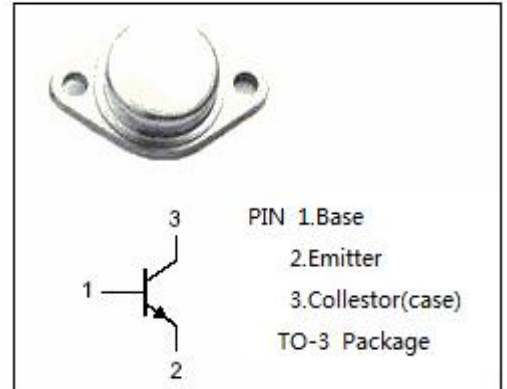
- Collector-Emitter Sustaining Voltage:
: $V_{CEO(SUS)} = 400V(\text{Min})$
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for TV horizontal output and high power switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	850	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	12	A
I_{CM}	Collector Current-Peak Repetitive	15	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	120	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**BU415B****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	400			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	6			V
I _{CBO}	Collector Cutoff Current	V _{CB} = 400V; I _E =0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			0.1	mA
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 2.5A			3.3	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 2.5A			2.2	V
h _{FE}	DC Current Gain	I _C = 5A; V _{CE} = 5V	4			

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