

isc Silicon NPN Darlington Power Transistor
BU807
DESCRIPTION

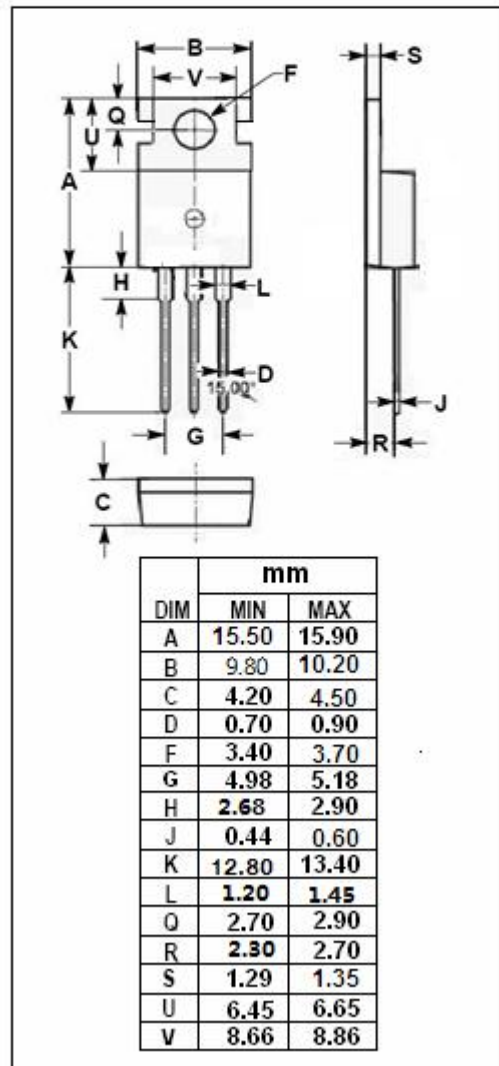
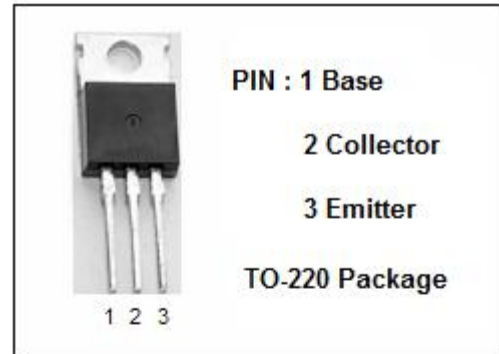
- High Voltage: $V_{CBO} = 330V(\text{Min})$
- Low Saturation Voltage-
: $V_{CE(\text{sat})} = 1.5V(\text{Max}) @ I_C = 5A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in horizontal deflection circuits in TV's and CRT's.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	330	V
V_{CEV}	Collector-Emitter Voltage	330	V
V_{CEO}	Collector-Emitter Voltage	150	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	8	A
I_{CM}	Collector Current-Peak	15	A
I_B	Base Current	2	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	60	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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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	150			V
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 50mA			1.5	V
V _{BE(sat)} *	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 50mA			2.4	V
I _{CES}	Collector Cutoff Current	V _{CE} = 330V; V _{BE} = 0			0.1	mA
I _{CEV}	Collector Cutoff Current	V _{CE} = 330V; V _{BE(off)} = 6V			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			3.0	mA
V _{ECF} *	C-E Diode Forward Voltage	I _F = 4A			2.0	V

*:Pulse test:pulse width≤300us,duty cycle≤1.5%

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