

isc Silicon NPN Darlington Power Transistor

BU807FI

DESCRIPTION

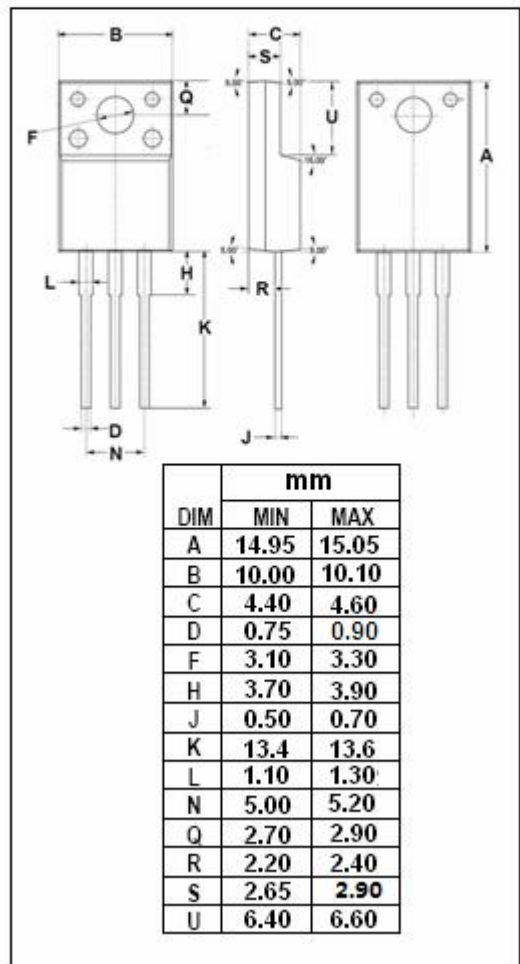
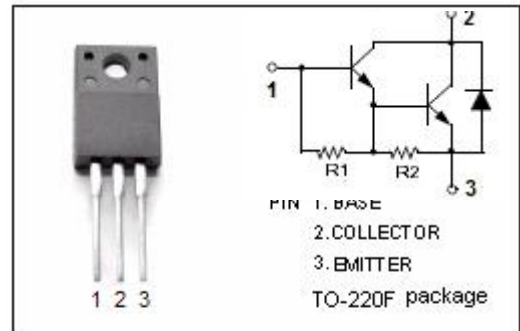
- High Voltage: $V_{CBO} = 330V(\text{Min})$
- Low Saturation Voltage-
: $V_{CE(sat)} = 1.5V(\text{Max}) @ I_C = 5A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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 @ $T_C = 25^\circ\text{C}$	30	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon NPN Darlington Power Transistor**BU807FI****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEQ(SUS)}^*$	Collector-Emitter Sustaining Voltage	$I_C=50\text{mA}; I_B=0$	150			V
$V_{CE(sat)}^*$	Collector-Emitter Saturation Voltage	$I_C=5\text{A}; I_B=50\text{mA}$			1.5	V
$V_{BE(sat)}^*$	Base-Emitter Saturation Voltage	$I_C=5\text{A}; I_B=50\text{mA}$			2.4	V
I_{CES}	Collector Cutoff Current	$V_{CE}=330\text{V}; V_{BE}=0$			0.1	mA
I_{CEV}	Collector Cutoff Current	$V_{CE}=330\text{V}; V_{BE(off)}=6\text{V}$			0.1	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=6\text{V}; I_C=0$			3.0	mA
V_{ECF}^*	C-E Diode Forward Voltage	$I_F=4\text{A}$			2.0	V

*:Pulse test:pulse width $\leq 300\mu\text{s}$,duty cycle $\leq 1.5\%$ **NOTICE:**

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