

isc Silicon NPN Darlington Power Transistor

BU807F

DESCRIPTION

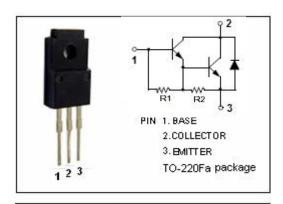
- High Voltage: V_{CBO}= 330V(Min)
- · Low Saturation Voltage-
- : V_{CE(sat)}= 1.5V(Max)@ I_C= 5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

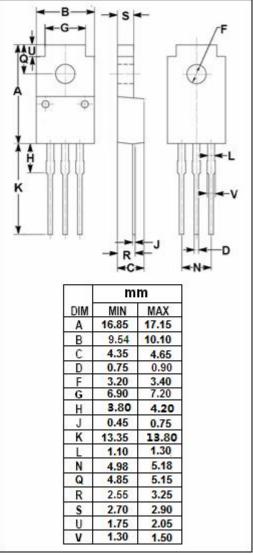
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage 33		V
V _{CEV}	Collector-Emitter Voltage	330	V
V _{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	8	Α
I _{CM}	Collector Current-Peak	15	А
I _B	Base Current	2	Α
Pc	Collector Power Dissipation @ T _C =25℃ 30		W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}\!\mathbb{C}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ 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
Ices	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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