

isc Silicon NPN Darlington Power Transistor

BU806FI

DESCRIPTION

- High voltage
- · High switching speed
- · Low saturation voltage
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

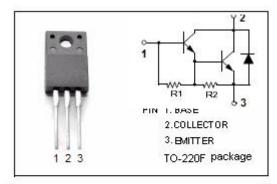
 This Darlington transistor is a high voltage high speed device for use in horizontal deflection circuits in TV's and CRT's

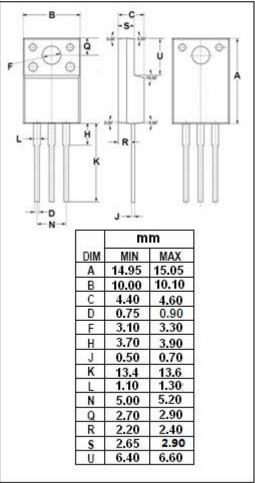
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector- Base Voltage	400	V
V _{CEV}	Collector- Emitter Voltage	400	V
Vceo	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	8	Α
I _{CM}	Collector Current-Peak	15	Α
Pc	Collector Power Dissipation @Tc=25°C	30	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	4.16	°C/W







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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	200			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} = Rated V _{CBO} ;V _{BE} = 0			0.1	mA		
I _{CEv}	Collector Cutoff Current	V _{CE} = Rated V _{CEV} ;V _{BE(off)} = 6V			0.1	mA		
ІЕВО	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			3.5	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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