

isc Silicon NPN Darlington Power Transistor

BU806F

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

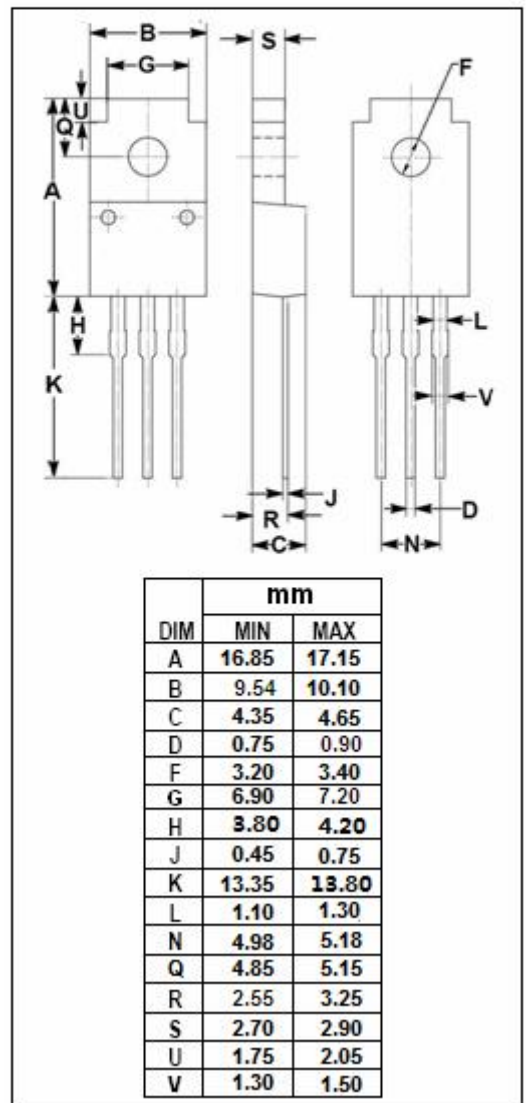
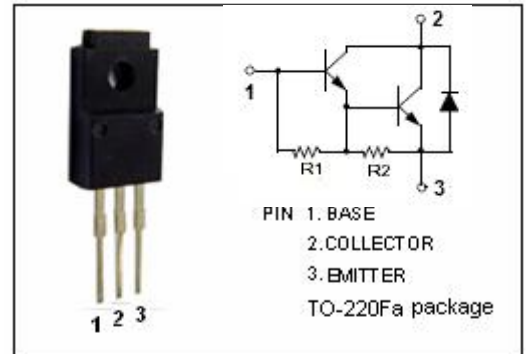
- This Darlington transistor is a high voltage ,high speed device for use in horizontal deflection circuits in TV's and CRT's

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector- Base Voltage	400	V
V_{CEV}	Collector- Emitter Voltage	400	V
V_{CEO}	Collector-Emitter Voltage	200	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	8	A
I_{CM}	Collector Current-Peak	15	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	-65~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	4.16	$^{\circ}\text{C/W}$



isc Silicon NPN Darlington Power Transistor**BU806F****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	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
I _{CES}	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
I _{EBO}	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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