

isc Silicon PNP Darlington Power Transistor

2SB886

DESCRIPTION

- High DC Current Gain-
: $h_{FE} = 1500(\text{Min}) @ I_C = -4\text{A}$
- Wide Area of Safe Operation
- Low Collector-Emitter Saturation Voltage-
: $V_{CE(\text{sat})} = -1.5\text{V}(\text{Max}) @ I_C = -4\text{A}$
- Complement to Type 2SD1196
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

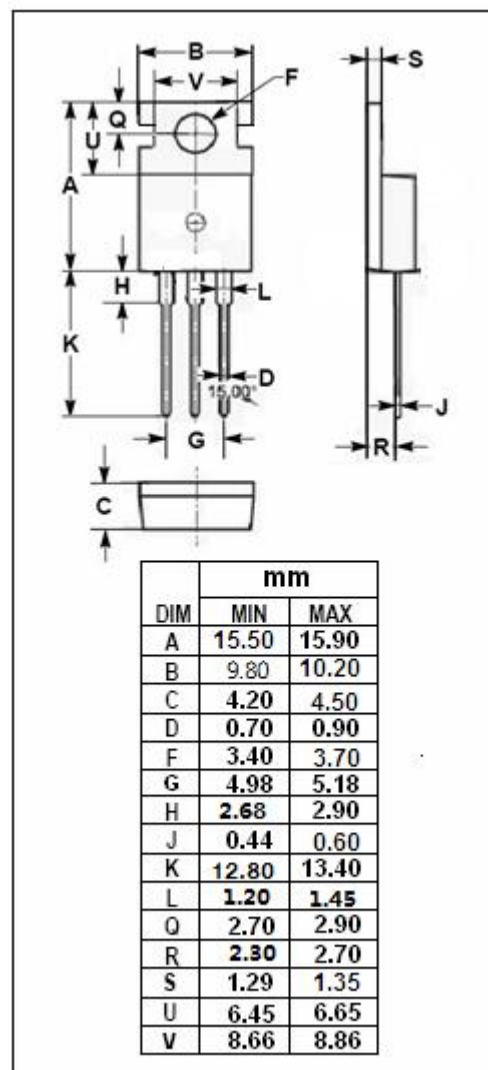
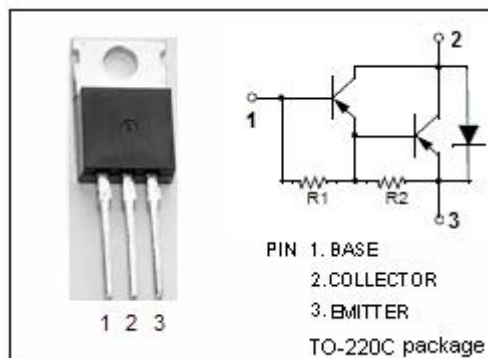


APPLICATIONS

- Designed for motor drivers, printer hammer drivers, relay drivers, voltage regulators applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-110	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-8	A
I_{CM}	Collector Current-Peak	-12	A
P_C	Collector Power Dissipation $T_C = 25^\circ\text{C}$	40	W
	Collector Power Dissipation $T_a = 25^\circ\text{C}$	1.75	
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon PNP Darlington Power Transistor**2SB886****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA, R _{BE} = ∞	-100			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -5mA, I _E = 0	-110			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A, I _B = -8mA			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -4A, I _B = -8mA			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V, I _E = 0			-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-3	mA
h _{FE}	DC Current Gain	I _C = -4A; V _{CE} = -3V	1500			

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