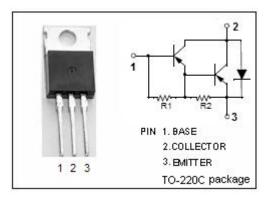


# isc Silicon PNP Darlington Power Transistor

## **DESCRIPTION**

- · High DC Current Gain-
- : h<sub>FE</sub> = 2000(Min)@ I<sub>C</sub>= -2A
- · Wide Area of Safe Operation
- · Low Collector-Emitter Saturation Voltage-
  - :  $V_{CE(sat)} = -1.5V(Max)@ I_{C} = -2A$
- Complement to Type 2SD1190
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

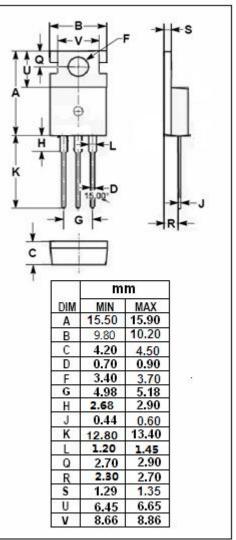


### **APPLICATIONS**

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

## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-70	V
Vceo	Collector-Emitter Voltage	-60	V
V <sub>EBO</sub>	Emitter-Base Voltage	-6	V
Ic	Collector Current-Continuous	-4	А
I <sub>CM</sub>	Collector Current-Peak	-6	А
P <sub>C</sub>	Collector Power Dissipation T <sub>C</sub> =25 °C	30	
	Collector Power Dissipation T <sub>a</sub> =25 °C	1.75	W
T <sub>j</sub>	Junction Temperature	150	$^{\circ}$ C
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$ C





## isc Silicon PNP Darlington Power Transistor

2SB880

#### **ELECTRICAL CHARACTERISTICS**

T<sub>c</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -30mA, R <sub>BE</sub> = ∞	-60			V
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -5mA, I <sub>E</sub> = 0	-70			٧
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -2A, I <sub>B</sub> = -4mA			-1.5	٧
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -2A, I <sub>B</sub> = -4mA			-2.0	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -40V, I <sub>E</sub> = 0			-100	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-3	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -2A; V <sub>CE</sub> = -2V	2000			



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