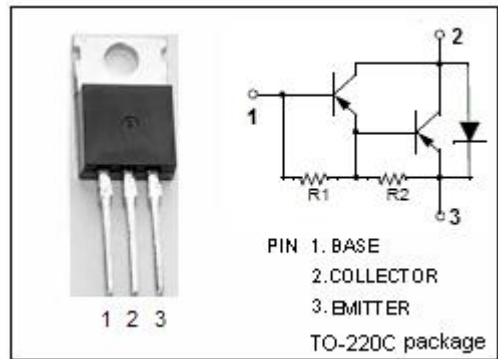


**isc Silicon PNP Darlington Power Transistor**
**2SB884**
**DESCRIPTION**

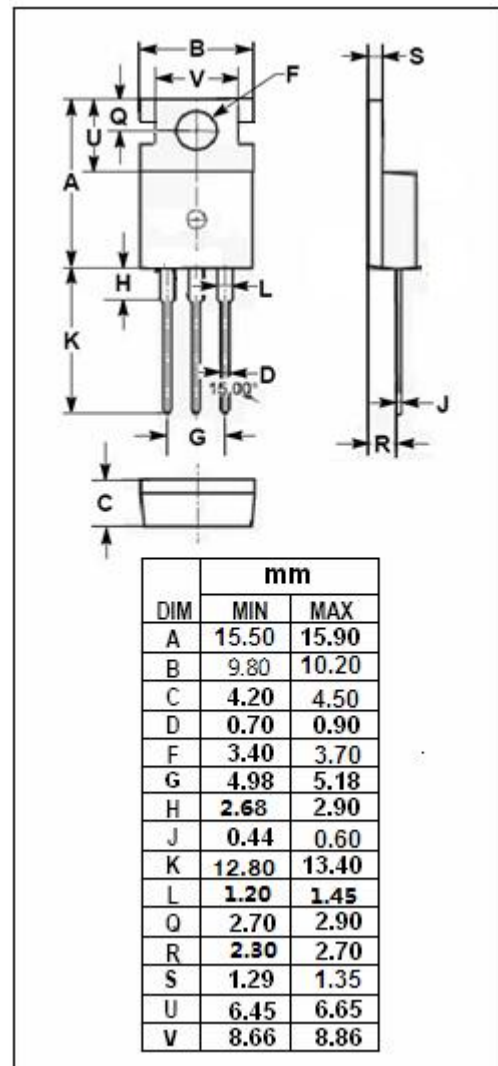
- High DC Current Gain-  
:  $h_{FE} = 1500(\text{Min}) @ I_C = -1.5\text{A}$
- Wide Area of Safe Operation
- Low Collector-Emitter Saturation Voltage-  
:  $V_{CE(\text{sat})} = -1.5\text{V}(\text{Max}) @ I_C = -1.5\text{A}$
- Complement to Type 2SD1194
- Minimum Lot-to-Lot variations for robust device 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	-3	A
$I_{CM}$	Collector Current-Peak	-5	A
$P_C$	Collector Power Dissipation $T_C=25^\circ\text{C}$	30	W
	Collector Power Dissipation $T_a=25^\circ\text{C}$	1.75	
$T_j$	Junction Temperature	150	$^\circ\text{C}$
$T_{\text{stg}}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



**isc Silicon PNP Darlington Power Transistor****2SB884****ELECTRICAL CHARACTERISTICS****T<sub>c</sub>=25°C 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> = ∞	-100			V
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -5mA, I <sub>E</sub> = 0	-110			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -1.5A, I <sub>B</sub> = -3mA			-1.5	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -1.5A, I <sub>B</sub> = -3mA			-2.0	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -80V, I <sub>E</sub> = 0			-100	μ A
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> = -1.5A; V <sub>CE</sub> = -3V	1500			

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