

# isc Silicon PNP Power Transistor

2SB891

## **DESCRIPTION**

- High Collector Current -I<sub>C</sub>= -2A
- · Good Linearity of hFE
- Low Collector Saturation Voltage
- Complement to Type 2SD1189
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

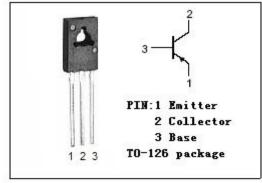


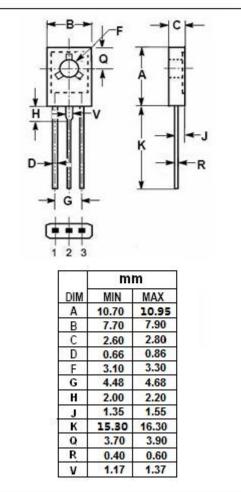
## **APPLICATIONS**

 Designed for use in output stage of audio amplifier, voltage regulator,DC-DC converter and relay driver.



SYMBOL	PARAMETER	VALUE	UNIT	
$V_{\text{CBO}}$	Collector-Base Voltage	-40	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	-32	V	
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-2	Α	
I <sub>CP</sub>	Collector Current-Pulse	-3	Α	
Pc	Collector Power Dissipation @ T <sub>C</sub> =25°C	10	W	
	Collector Power Dissipation @ T <sub>a</sub> =25°C	1.2		
TJ	Junction Temperature	150	$^{\circ}$	
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$	







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#### **ELECTRICAL CHARACTERISTICS**

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

10-20 C unicos otherwise specifica							
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -50 μ A; I <sub>E</sub> = 0	-40			V	
V <sub>(BR)</sub> CEO	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -1mA; I <sub>B</sub> = 0	-32			V	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -50 μ A; I <sub>C</sub> = 0	-5			٧	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -2A; I <sub>B</sub> = -0.2A			-0.8	<b>V</b>	
І <sub>сво</sub>	Collector Cutoff Current	V <sub>CB</sub> = -20V; I <sub>E</sub> = 0			-1.0	μ <b>А</b>	
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -4V; I <sub>C</sub> = 0			-1.0	μА	
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -0.5A; V <sub>CE</sub> = -3V	82		390		

### ♦ h<sub>FE</sub> Classifications

Р	Q	R
82-180	120-270	180-390

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