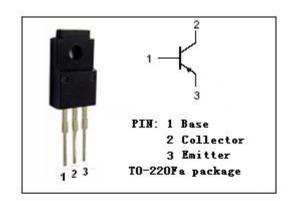


# isc Silicon PNP Power Transistor

2SB1016

### **DESCRIPTION**

- Low Collector Saturation Voltage-
- : V<sub>CE(sat)</sub>= -2.0 V(Max)@I<sub>C</sub>= -4A
- · Good Linearity of hFE
- Complement to Type 2SD1407
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

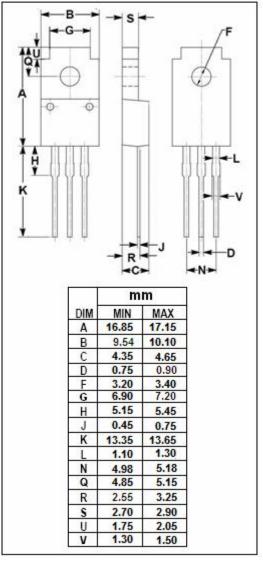


### **APPLICATIONS**

• Designed for audio frequency power amplifier applications.

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>СВО</sub>	Collector-Base Voltage	-100	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	-100	V	
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-5	А	
I <sub>B</sub>	Base Current-Continuous	-0.5	А	
Pc	Collector Power Dissipation @ T <sub>C</sub> =25℃	30	W	
TJ	T <sub>J</sub> Junction Temperature		$^{\circ}$ C	
T <sub>stg</sub>	T <sub>stg</sub> Storage Temperature Range		${\mathbb C}$	





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### **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	$I_{C}$ = -50mA; $I_{B}$ = 0	-100			V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -4A; I <sub>B</sub> = -0.4A			-2.0	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -4A; V <sub>CE</sub> = -5V			-1.5	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> = -100V; I <sub>E</sub> = 0			-100	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-1.0	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -1A; V <sub>CE</sub> = -5V	40		240	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -4A; V <sub>CE</sub> = -5V	20			

### ♦ h<sub>FE-1</sub> Classifications

R	0	Y
40-80	70-140	120-240

### **NOTICE:**

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