

# isc Silicon PNP Power Transistor

### **DESCRIPTION**

- · Collector-Emitter Breakdown Voltage-
  - : V<sub>(BR)CEO</sub>= -200V(Min)
- Complement to Type 2SD610
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

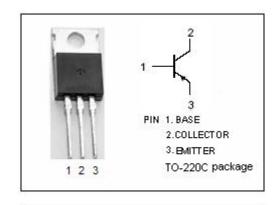


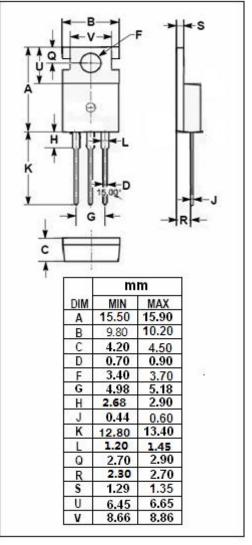
### **APPLICATIONS**

- · Audio frequency power amplifier applications.
- Suitable for driver of 200~300 watts audio amplifier.



SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>CBO</sub>	Collector-Base Voltage	-200	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	-200	V	
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-2	А	
Ісм	Collector Current-Peak	-3.0	А	
Pc	Collector Power Dissipation @ T <sub>a</sub> =25℃	1.5	W	
	Collector Power Dissipation @ Tc=25℃	25		
TJ	Junction Temperature 150		°C	
T <sub>stg</sub>	Storage Temperature Range -55		°C	







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2SB630

### **ELECTRICAL CHARACTERISTICS**

 $T_c=25$ °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -0.5A; I <sub>B</sub> = -50mA			-1.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -0.5A; I <sub>B</sub> = -50mA			-1.5	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> = -150V; I <sub>E</sub> = 0			-1.0	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -3V; I <sub>C</sub> = 0			-1.0	μА
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -5mA; V <sub>CE</sub> = -10V	20			
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -0.5A; V <sub>CE</sub> = -10V	40		200	
Сов	Collector Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = -10V; f= 1MHz		65		pF
f <sub>⊤</sub>	Current-Gain—Bandwidth Product	I <sub>C</sub> = -0.5A; V <sub>CE</sub> = -10V		4		MHz

## ♦ h<sub>FE-2</sub> Classifications

S	R	Q
40-80	60-120	100-200

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