

## isc Silicon PNP Power Transistor

# 2SB1273

#### **DESCRIPTION**

- High Reliability
- · Low Collector Saturation Voltage
  - : V<sub>CE(sat)</sub>= -1.0V(Max)@I<sub>C</sub>= -2A
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

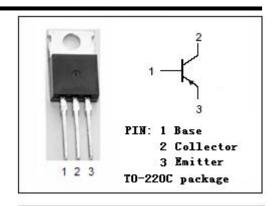


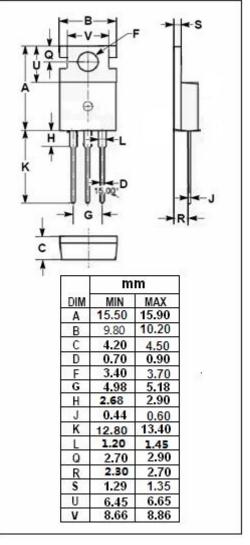
### **APPLICATIONS**

• Designed for low frequency power amplifier applications.

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>CBO</sub>	Collector-Base Voltage	-60	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	-60	V	
V <sub>EBO</sub>	Emitter-Base Voltage	-6	V	
Ic	Collector Current-Continuous	-3	А	
I <sub>CM</sub>	Collector Current-Peak	-8	А	
Pc	Total Power Dissipation @ Ta=25°C	1.75	- w	
	Total Power Dissipation @ Tc=25℃	30		
TJ	Junction Temperature		$^{\circ}$ C	
T <sub>stg</sub>	Storage Temperature Range -55~15		$^{\circ}$	







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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 <sub>C</sub> = -5mA; R <sub>BE</sub> = ∞	-60			V
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -1mA; I <sub>E</sub> = 0	-60			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -1mA; I <sub>C</sub> = 0	-6			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	Ic= -2A; I <sub>B</sub> = -0.2A			-1.0	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -0.5A; V <sub>CE</sub> = -5V			-1.0	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> = -40V; I <sub>E</sub> = 0			-0.1	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -4V; I <sub>C</sub> = 0			-0.1	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -0.5A; V <sub>CE</sub> = -5V	70		280	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -3A; V <sub>CE</sub> = -5V	20			
Сов	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = -10V; f= 1MHz		60		pF
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>C</sub> = -0.5A; V <sub>CE</sub> = -5V		100		MHz

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

Q	R	S
70-140	100-200	140-280

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