

# isc Silicon PNP Power Transistor

#### **DESCRIPTION**

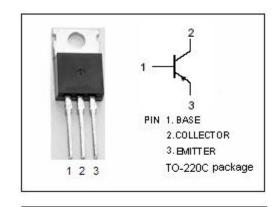
- · Collector-Emitter Breakdown Voltage
  - : V<sub>(BR)CEO</sub>= -120V(Min)
- · Good Linearity of hFE
- Complement to Type 2SC2275
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

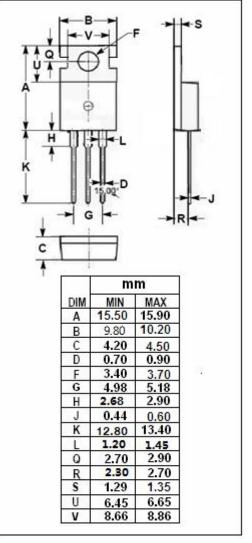
## **APPLICATIONS**

- · Audio frequency power amplifier applications
- · High frequency power amplifier applications

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-120	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-120	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-1.5	А
I <sub>CM</sub>	Collector Current-Peak	-3.0	Α
I <sub>B</sub>	Base Current-Continuous	-0.3	Α
P <sub>C</sub>	Total Power Dissipation @ T <sub>a</sub> =25℃	1.5	W
	Total Power Dissipation @ T <sub>C</sub> =25°C	25	VV
Тл	Junction Temperature	150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$







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2SA985

#### **ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -1A; I <sub>B</sub> = -0.1A			-2.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I <sub>C</sub> = -1A; I <sub>B</sub> = -0.1A			-1.5	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> = -120V ; 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> = -5V	35			
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -0.3A; V <sub>CE</sub> = -5V	60		320	
Сов	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = -10V; f <sub>test</sub> = 1MHz		29		pF
f⊤	Current-Gain—Bandwidth Product	Ic= -0.2A;Vc== -5V		180		MHz

### h<sub>FE-2</sub> Classifications

R	Q	Р
60-120	100-200	160-320

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