

# **isc Silicon PNP Power Transistor**

# 2SA1987

#### **DESCRIPTION**

- · High Current Capability
- · High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
  - : V<sub>(BR)CEO</sub>= -230V(Min)
- Complement to Type 2SC5359
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

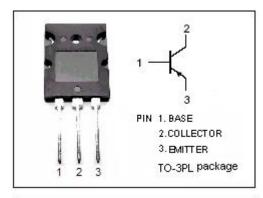


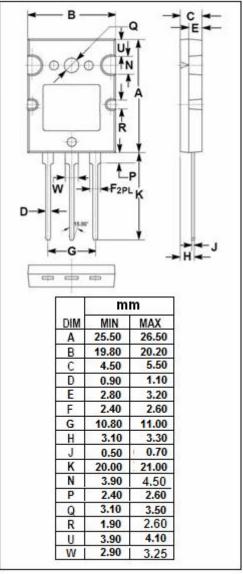
### **APPLICATIONS**

- · Power amplifier applications
- Recommend for 100W high fidelity audio frequency amplifier output stage applications



SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-230	٧
V <sub>CEO</sub>	Collector-Emitter Voltage	-230	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-15	Α
I <sub>B</sub>	Base Current-Continuous	-1.5	Α
Pc	Collector Power Dissipation @ T <sub>C</sub> =25℃		W
TJ	Junction Temperature	150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range -5		$^{\circ}$ 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 <sub>C</sub> = -50mA ; I <sub>B</sub> = 0	-230			V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -8.0A; I <sub>B</sub> = -0.8A			-3.0	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -7A ; V <sub>CE</sub> = -5V			-1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -230V ; I <sub>E</sub> = 0			-5	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-5	μА
h <sub>FE-1</sub>	DC Current Gain	Ic= -1A; Vc== -5V	55		160	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -7A; V <sub>CE</sub> = -5V	35			
Сов	Output Capacitance	I <sub>E</sub> =0 ; V <sub>CB</sub> = -10V;f= 1.0MHz		360		pF
f⊤	Current-Gain—Bandwidth Product	Ic=-1A ; Vc== -5V		30		MHz

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

R	0
55-110	80-160

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