

# **ISC Silicon PNP Power Transistor**

2SA1507

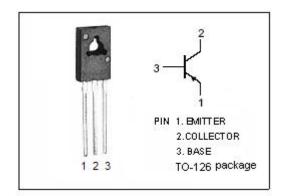
#### **DESCRIPTION**

- High Collector-Emitter Breakdown Voltage-V<sub>(BR)CEO</sub>= -160V (Min)
- Large Current Capacity
- Complement to Type 2SC3902
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



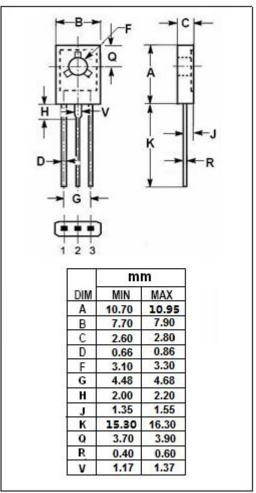
### **APPLICATIONS**

 Designed for use in color TV audio output, converters and inverters.



# ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-180	V
Vceo	Collector-Emitter Voltage	-160	V
$V_{EBO}$	Emitter-Base Voltage	-6.0	V
Ic	Collector Current-Continuous	-1.5	А
Ісм	Collector Current-Peak	-2.5	А
Pc	Collector Power Dissipation @ Ta=25℃	1.5	
	Total Power Dissipation @ T <sub>C</sub> =25℃	10	W
TJ	Junction Temperature	150	$^{\circ}$ C
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$ C





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#### **ELECTRICAL CHARACTERISTICS**

 $T_c=25$ °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -10 μ A; I <sub>E</sub> = 0	180			V
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -1mA; R <sub>BE</sub> = ∞	160			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -10 μ A; I <sub>C</sub> = 0	6			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -500mA; I <sub>B</sub> = -50mA			-0.5	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -500mA; I <sub>B</sub> = -50mA			-1.2	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> = -120V; I <sub>E</sub> = 0			-0.1	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -4V; I <sub>C</sub> = 0			-0.1	μА
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -100mA; V <sub>CE</sub> = -5V	100		400	
h <sub>FE-2</sub>	DC Current Gain	Ic= -10mA; VcE= -5V	90			

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

R	S	T
100-200	140-280	200-400

### **NOTICE:**

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2

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