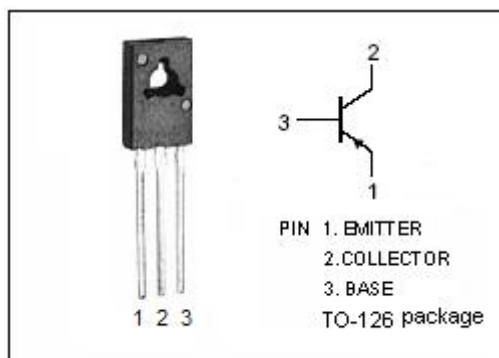


**isc Silicon PNP Power Transistor**
**2SA1249**
**DESCRIPTION**

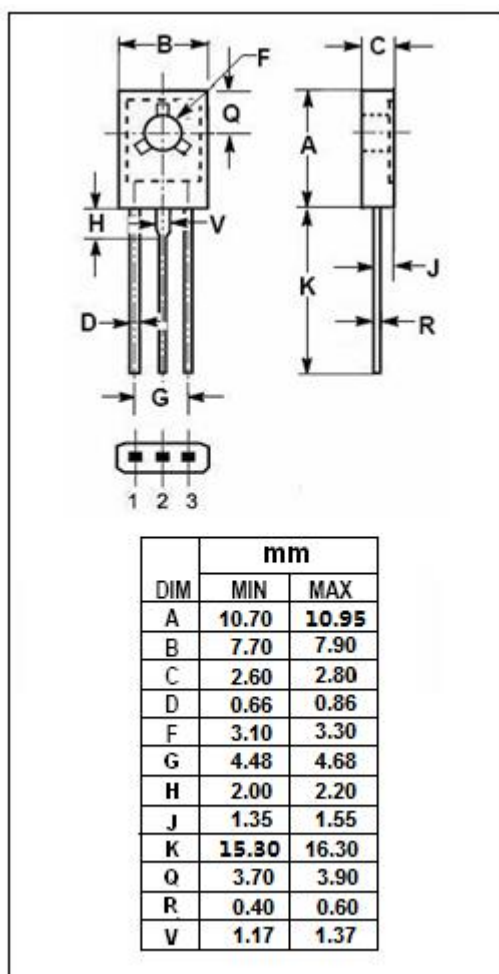
- High Collector-Emitter Breakdown Voltage-  
:  $V_{(BR)CEO} = -160V$  (Min)
- Large Current Capacity
- Complement to Type 2SC3117
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Color TV sound output, converters, inverters.


**ABSOLUTE MAXIMUM RATINGS(Ta=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-180	V
$V_{CEO}$	Collector-Emitter Voltage	-160	V
$V_{EBO}$	Emitter-Base Voltage	-6	V
$I_C$	Collector Current-Continuous	-1.5	A
$I_{CM}$	Collector Current-Peak	-2.5	A
$P_C$	Total Power Dissipation @ $T_a=25^\circ C$	1	W
	Total Power Dissipation @ $T_C=25^\circ C$	10	
$T_J$	Junction Temperature	150	°C
$T_{stg}$	Storage Temperature Range	-55~150	°C



**isc Silicon PNP Power Transistor**
**2SA1249**
**ELECTRICAL CHARACTERISTICS**

 T<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -1mA; R <sub>BE</sub> = ∞	-160			V
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)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> = -0.5A; I <sub>B</sub> = -50mA			-0.5	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -0.5A; I <sub>B</sub> = -50mA			-1.2	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -120V; I <sub>E</sub> = 0			-1.0	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -4V; I <sub>C</sub> = 0			-1.0	μ A
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -0.1A; V <sub>CE</sub> = -5V	100		400	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -10mA; V <sub>CE</sub> = -5V	90			

**◆ h<sub>FE-1</sub> Classifications**

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

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