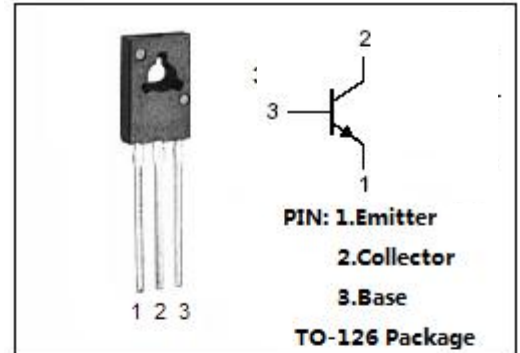


**isc Silicon NPN Power Transistor**
**BF469/BF471**
**DESCRIPTION**

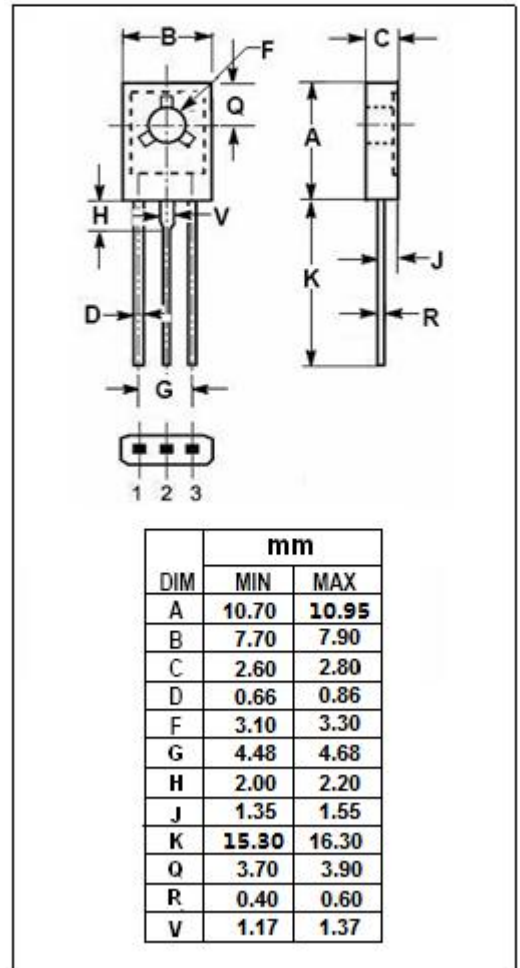
- NPN transistors in a to-126 package
- PNP complements BF470 and BF472
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Intended for class-B video output stages in television Receivers and for high-voltage IF output stages


**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>CBO</sub>	Collector-Base Voltage	BF469	250	V
		BF471	300	
V <sub>CEO</sub>	Collector-Emitter Voltage	BF469	250	V
		BF471	300	
V <sub>EBO</sub>	Emitter-Base Voltage	5	V	
I <sub>C</sub>	Collector Current-Continuous	50	mA	
I <sub>CM</sub>	Collector Current-Peak	100	mA	
I <sub>BM</sub>	Base Current-Peak	50	mA	
P <sub>tot</sub>	Total power dissipation T <sub>mp</sub> ≤ 114°C	1.8	W	
T <sub>J</sub>	Junction Temperature	150	°C	
T <sub>stg</sub>	Storage Temperature Range	-65~150	°C	


**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-a</sub>	Thermal Resistance, Junction to ambient	100	K/W

**isc Silicon NPN Power Transistor**
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**ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 30mA; I <sub>B</sub> = 5mA			0.6	V
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> =0			50	nA
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> = 200V; I <sub>E</sub> =0			10	nA
		V <sub>CB</sub> = 200V; I <sub>E</sub> =0, T <sub>j</sub> =150°C			10	uA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 25mA ; V <sub>CE</sub> = 20V	50			

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