

isc Silicon PNP Power Transistor

BF470/BF472

DESCRIPTION

- PNP transistors in a to-126 package
- NPN complements BF469 and BF471
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

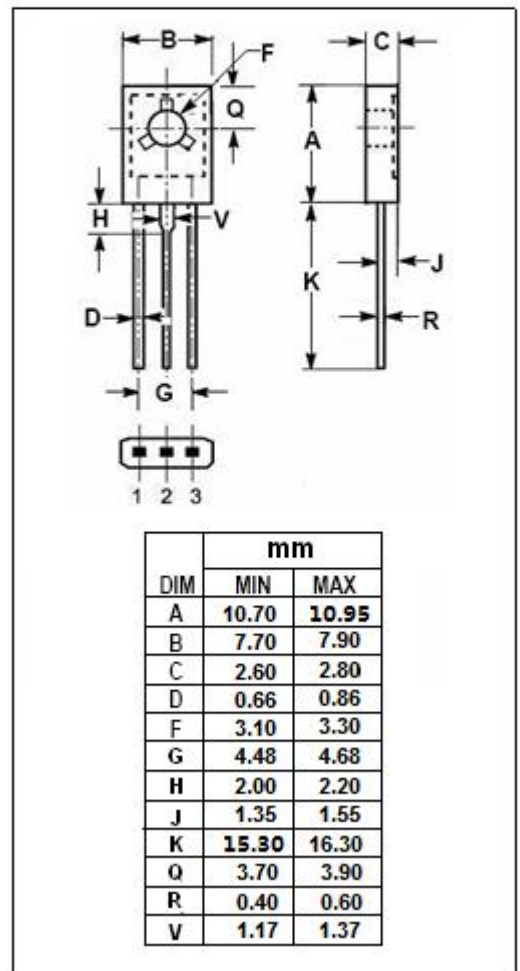
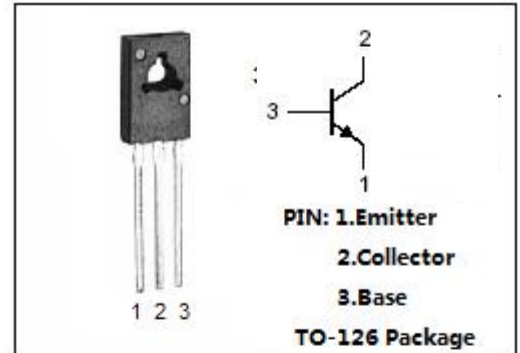
- Intended for class-B video output stages in television Receivers and for high-voltage IF output stages

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	BF469	-250
		BF471	-300
V_{CEO}	Collector-Emitter Voltage	BF469	-250
		BF471	-300
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-50	mA
I_{CM}	Collector Current-Peak	-100	mA
I_{BM}	Base Current-Peak	-50	mA
P_{tot}	Total power dissipation $T_{mp} \leq 114^{\circ}\text{C}$	1.8	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-a}$	Thermal Resistance, Junction to ambient	100	K/W



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ELECTRICAL CHARACTERISTICS

 $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -30\text{mA}$; $I_B = 5\text{mA}$			-0.6	V
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5\text{V}$; $I_C = 0$			-50	nA
I_{CBO}	Collector cut-off current	$V_{CB} = -200\text{V}$; $I_E = 0$			-10	nA
		$V_{CB} = -200\text{V}$; $I_E = 0$; $T_J = 150^{\circ}\text{C}$			-10	uA
h_{FE}	DC Current Gain	$I_C = 25\text{mA}$; $V_{CE} = 20\text{V}$	50			

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