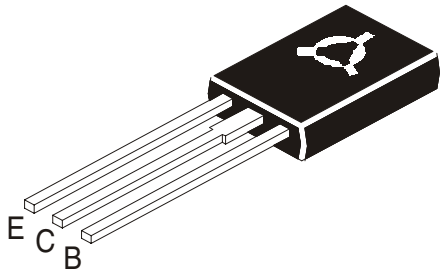
PNP PLASTIC POWER TRANSISTORS

BF470, 472



TO126
Plastic Package

Complementary BF469, 471
Video Applications in TV

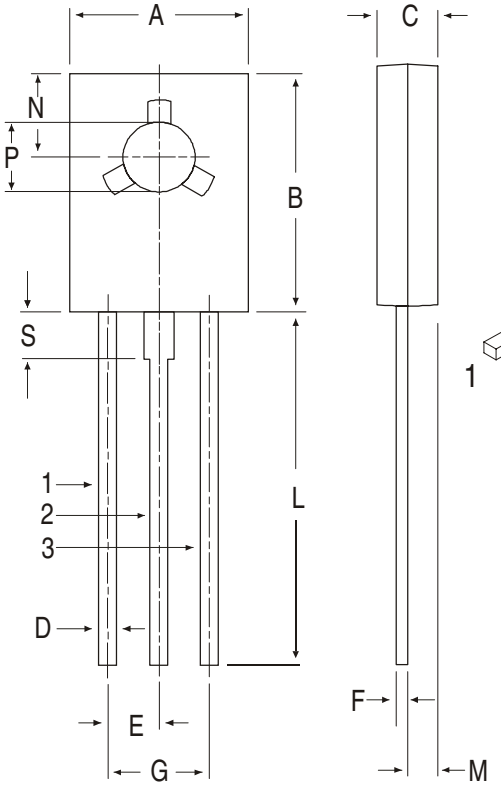
ABSOLUTE MAXIMUM RATINGS (Ta=25ºC unless specified otherwise)

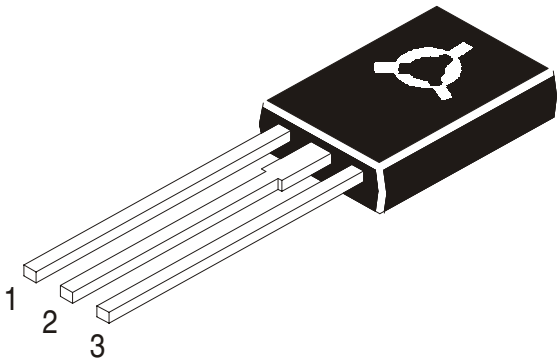
DESCRIPTION	SYMBOL	470	472	UNITS
Collector Base Voltage(open emitter)	V_{CBO}	>250	>300	V
Collector Emitter Voltage (open base)	V_{CEO}	>250		V
Collector Emitter Voltage (R_{BE} ≤2.7KΩ)	V_{CER}		<300	V
Emitter Base Voltage(open collector)	V_{EBO}	>5.0		V
Collector Current	I_C	<30		mA
Collector Current (Peak Value)	I_{CM}	<100		mA
Total Power Dissipation@ Tc=110^0 C	P_{tot}	<2.0		W
Junction Temperature	T_j	<150		ºC/W
Storage Temperature	T_{stg}	-65 to +150		ºC/W
THERMAL RESISTANCE				
From Junction to case	$R_{th(j-c)}$	20		K/W
From Junction to ambient	$R_{th(j-a)}$	100		K/W

ELECTRICAL CHARACTERISTICS (Ta=25ºC unless specified otherwise)

DESCRIPTION	SYMBOL		470	472	UNITS
Collector-Cut off Current					
	I_{CBO}	I_E =0, V_{CB} =200V	<100		nA
	I_{CER}	R_{BE}=2.7kΩ, V_{CE}=250V		<50	nA
	I_{CER}	R_{BE}=2.7kΩ, V_{CE}=200V,T_J=150ºC		<10	µA
Emitter cut off Current	I_{EBO}	V_{EB} =5V, I_C =0	<10		µA
Breakdown Voltages	V_{CEO}	I_C =1mA, I_B =0	>250		V
	V_{CER}	I_C=1µA,R_{BE}=2.7KΩ		>300	V
	V_{CBO}	I_C =10µA, I_E =0	>250	>300	V
	V_{EBO}	I_C =0, I_E =10µA	>5.0		V
DC Current Gain	h_{FE}	I_C=25mA,V_{CE}=20V	>50		
Transition Frequency	f_T	I_C=10mA, V_{CE}=10V	>60		MHz
Feedback Capacitance f=0.5MHz	C_{re}	I_C=0, V_{CE}=30V	>1.8		pF

TO-126 (SOT-32) Plastic Package





Pin Configuration

1. Emitter
2. Collector
3. Base

DIM	MIN	MAX
A	7.4	7.8
B	10.5	10.8
C	2.4	2.7
D	0.7	0.9
E	2.25 TYP.	
F	0.49	0.75
G	4.5 TYP.	
L	15.7 TYP.	
M	1.27 TYP.	
N	3.75 TYP.	
P	3.0	3.2
S	2.5 TYP.	

All diminsions in mm.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-126 Bulk	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2K	17" x 15" x 13.5"	32K	31 kgs
TO-126 Tube	50 pcs/tube	73 gm/50 pcs	3" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	15 kgs

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