MANAGEMENT SERVICE

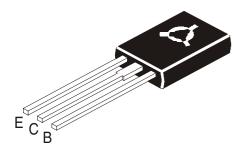


An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

### **NPN PLASTIC POWER TRANSISTORS**

BF 469, BF471

TO126 Plastic Package



Complementary BF470, 472

## **Video Applications in TV**

ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless specified otherwise)

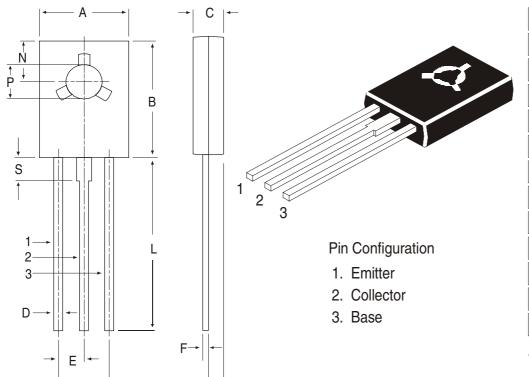
DESCRIPTION	SYMBOL	469	471	UNITS
Collector Base Voltage(open emitter)	$V_{CBO}$	>250	>300	V
Collector Emitter Voltage (open base)	$V_{CEO}$	>250		V
Collector Emitter Voltage ( $R_{BE} = 2.7 K\Omega$ )	$V_{\sf CER}$		<300	V
Emitter Base Voltage(open collector)	$V_{EBO}$	>5.0		V
Collector Current	I <sub>C</sub>	<30		mΑ
Collector current (Peak Value)	I <sub>CM</sub>	<100		mA
Total Power Dissipation@ Tc=110ºC	$P_{tot}$	<2		W
Junction Temperature	T <sub>i</sub>	<150		oC
Storage Temperature	$T_{stg}$	-65 to	-65 to +150	
THERMAL RESISTANCE				
From Junction to case	$R_{th(i-c)}$	20		K/W
From Junction to ambient	$R_{th(j-a)}$	100		K/W

ELECTRICAL CHARACTERISTICS (Ta=25°C Unless Otherwise Specified)

DESCRIPTION	SYMBO	SYMBOL		•	471	UNITS
Collector-Cut off Current						
	$I_{CBO}$	$I_E = 0, V_{CB} = 200V$	<100			nA
	I <sub>CER</sub>	$R_{BE}=2.7k\Omega$ ,			<50	nA
		$V_{CE}=250V$				
	I <sub>CER</sub>	$R_{BE}=2.7k\Omega$ ,			<10	μΑ
		V <sub>CE</sub> =200V,T <sub>J</sub> =150ºC				
Emitter cut off Current	I <sub>EBO</sub>	$V_{EB} = 5V$ , $I_C = 0$		<10		nA
Breakdown Voltages	$V_{\sf CEO}$	$I_C = 1 \text{mA}, I_B = 0$	>250			V
-	$V_{\sf CER}$	$I_C=1uA,R_{BE}=2.7K\Omega$			>300	V
	$V_{\sf CBO}$	$I_{C} = 10uA, I_{E} = 0$	>250		>300	V
	$V_{\sf ERO}$	$I_{C} = 0$ , $I_{E} = 10uA$		>5.0		V
	- LBO	0 -7 L				
DC Current Gain	$h_{FE}$	$I_C=25$ mA, $V_{CE}=20$ V		>50		
Transition Frequency	$f_T$	$I_C=10$ mA, $V_{CE}=10$ V		>60		MHz
Feedback Capacitance f=0.5MHz	$C_{re}$	$I_{C}=0, V_{CF}=30V$		>1.8		рF

## TO126 Plastic Package

## TO-126 (SOT-32) Plastic Package



DIM	MIN	MAX	
Α	7.4	7.8	
В	10.5	10.8	
С	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.		
М	1.27 TYP.		
N	3.75 TYP.		
Р	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

Notes BF 469, BF471

TO126 Plastic Package

### **Disclaimer**

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