

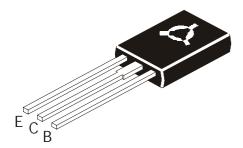


An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

#### **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)

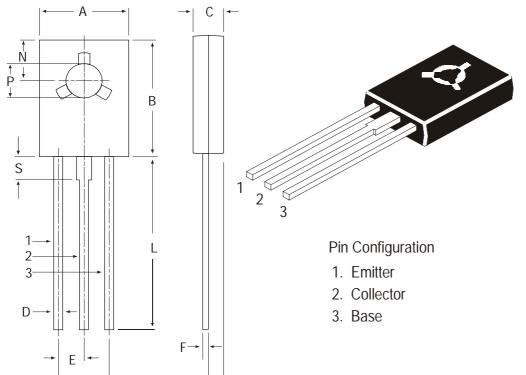
DESCRIPTION	SYMBOL	469	471	UNITS
Collector Base Voltage(open emitter)	$V_{CBO}$	>250	>300	V
Collector Emitter Voltage (open base)	$V_{CEO}$	>250		V
Collector Emitter Voltage ( $R_{BE} = 2.7 K\Omega$ )	$V_{CER}$		<300	V
Emitter Base Voltage(open collector)	$V_{EBO}$	>5.0		V
Collector Current	I <sub>C</sub>	<30		mA
Collector current (Peak Value)	I <sub>CM</sub>	<100		mA
Total Power Dissipation@ Tc=110°C	$P_{tot}$	<2		W
Junction Temperature	T <sub>i</sub>	<150		٥С
Storage Temperature	$T_{stg}$	-65 to +150		٥C
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=25°C Unless Otherwise Specified)

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

# TO126 Plastic Package

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



DIM	MIN	MAX		
А	7.4	7.8		
В	10.5	10.8		
С	2.4	2.7		
D	0.7	0.9		
E	2.25	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
	500 pcs/polybag	340 gm/500 pcs	II .	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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CDIL is a registered Trademark of
Continental Device India Limited
C-120 Naraina Industrial Area, New Delhi 110 028, India.
Telephone + 91-11-579 6150 Fax + 91-11-579 9569, 579 5290
e-mail sales@cdil.com www.cdil.com

BF469-471 Rev170701