

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} =2.7K Ω)	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 ^o C	P _{tot}	<2		W
Junction Temperature	T _i	<150		°C
Storage Temperature	T _{stg}	-65 to	-65 to +150	
THERMAL RESISTANCE				
From Junction to case	R _{th(j-c)}	20)	K/W
From Junction to ambient	R _{th(j-a)}	10	0	K/W

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

DESCRIPTION	PTION SYMBOL		469		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	μA
		V_{CE} =200V, T_{J} =150°C				
Emitter cut off Current	I _{EBO}	V _{EB} =5V, I _C =0		<10		nA
Breakdown Voltages	V _{CEO}	I _C =1mA, I _B =0	>250			V
	V_{CER}	I_{C} =1uA, R_{BE} =2.7K Ω			>300	V
	V _{CBO}	I _C =10uA, I _E =0	>250		>300	V
	V_{EBO}	$I_{C} = 0, I_{E} = 10 u A$		>5.0		V
DC Current Gain	h _{FE}	I _C =25mA,V _{CE} =20V		>50		
Transition Frequency	f⊤	I _C =10mA, V _{CE} =10V		>60		MHz
Feedback Capacitance f=0.5MHz	C _{re}	I _C =0, V _{CE} =30V		>1.8		pF

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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 TYP.			
F	0.49	0.75		
G	4.5 TYP.			
L	15.7 TYP.			
М	1.27 TYP.			
Ν	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		340 gm/500 pcs		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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Disclaimer

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