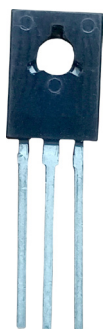


Single Bipolar Transistor multicomp^{PRO}



RoHS
Compliant

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

Description	Symbol	BF470	BF472	Unit
Collector Base Voltage(open emitter)	V _{CB0}	>250	>300	V
Collector Emitter Voltage (open base)	V _{CEO}			
Collector Emitter Voltage (RBE <2.7KΩ)	V _{CER}		<300	
Emitter Base Voltage(open collector)	V _{EBO}	>5		
Collector Current	I _C	<30		mA
Collector Current (Peak Value)	I _{CM}	<100		
Total Power Dissipation@ Tc=110°C	P _{tot}	<2		W
Junction Temperature	T _j	<150		°C/W
Storage Temperature	T _{stg}	-65 to +150		

Thermal Resistance

Description	Symbol	Value	Unit
From Junction to case	R _{th(j-c)}	20	K/W
From Junction to ambient	R _{th(j-a)}	100	

Electrical Characteristics (Ta = 25°C Unless otherwise specified)

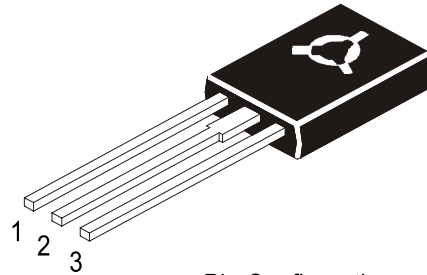
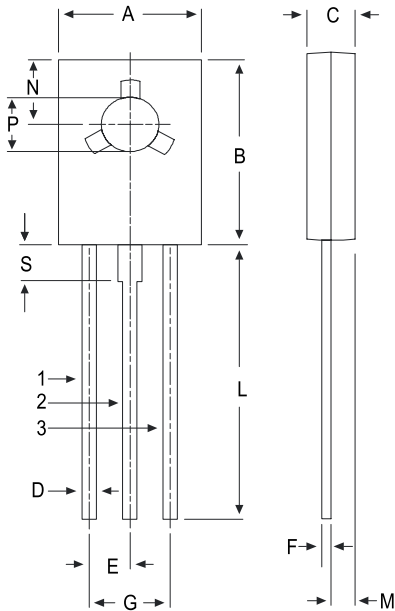
Description	Symbol	Test Condition	BF470	BF472	Unit
Collector-Cut off Current	I _{CBO}	I _E = 0, V _{CB} = 200V	<100	--	nA
	I _{CER}	R _{BE} =2.7kΩ, V _{CE} =250V	--	<50	
	I _{CER}	R _{BE} =2.7kΩ, V _{CE} =200V, T _J =150°C	--	<10	μA
Emitter cut off Current	I _{EBO}	V _{EB} = 5V, I _C = 0	<10		
Breakdown Voltages	V _{CEO}	I _C = 1mA, I _B = 0	>250	--	V
	V _{CER}	I _C =1μA, R _{BE} =2.7KΩ	--	>300	
	V _{CBO}	I _C = 10μA, I _E = 0	>250		
	V _{EBO}	I _C = 0, I _E = 10μA	>5		
DC Current Gain	h _{FE}	I _C =25mA, V _{CE} =20V	>50		
Transition Frequency	f _r	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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Single Bipolar Transistor **multicomp**PRO

Diagram



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	3.2
S	2.5 TYP.	

Part Number Table

Description	Part Number
Single Bipolar Transistor, PNP, 250V, 30mA, 2W, TO-126	BF470
Single Bipolar Transistor, PNP, 300V, 30mA, 2W, TO-126	BF472

Dimensions : Millimetres

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