

Features

- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

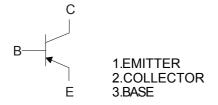
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 150°C/W Junction to Ambient

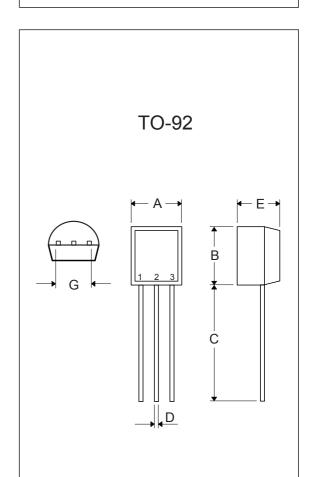
Parameter	Symbol	Rating	Unit		
Collector-Base Voltage	BF420	V _{CBO}	-300	V	
Collector-base voltage	BF422	▼ CBO	-250		
Collector-Emitter	BF420	V _{CEO}	-300	V	
Voltage	BF422	V CEO	-250	V	
Emitter-Base Voltage	V_{EBO}	-5	V		
Continuous Collector C	Ic	-0.1	Α		
Power Dissipation	P_D	830	mW		

Marking: Type Number

Internal Structure



PNP Silicon Plastic-Encapsulate Transistor



DIMENSIONS					
DIM IN		HES	M	M	NOTE
וווט	MIN	MAX	MIN	MAX	NOIL
Α	0.169	0.185	4.30	4.70	
В	0.169	0.185	4.30	4.70	
С	0.500		12.70		
D	0.015	0.022	0.38	0.55	
E	0.130	0.146	3.30	3.70	
G	0.095	0.105	2.42	2.67	Straight Lead
	0.173	0.220	4.40	5.60	Bent



Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

Parameter		Symbol	Min	Тур	Max	Units	Conditions	
Collector-Base Breakdown Voltage	BF420	V _{(BR)CBO}	-300			V	I _C =-100μA, I _E =0	
	BF422		-250			V	1 _C =-100μΑ, 1 _E =0	
Collector-Emitter Breakdown Voltage	BF420	V _{(BR)CEO}	-300			V	I _C =-1mA, I _B =0	
	BF422		-250					
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	-5			V	$I_{E}=-100\mu A, I_{C}=0$	
Collector Cutoff Current		I _{CBO}			-0.01	μΑ	$V_{CB} = -200V, I_{E} = 0$	
Emitter Cutoff Current		I _{EBO}			-0.05	μΑ	V_{EB} =-5V, I_C =0	
DC Current Gain		h _{FE}	50				V _{CE} =-20V, I _C =-25mA	
Collector-Emitter Saturation Voltage		V _{CE(sat)}			-0.6	V	I _C =-30mA, I _B =-5mA	
Transition Frequency		f _T	60			MHz	V _{CE} =-10V, I _C =-10mA, f=100MHz	



Ordering Information

Device	Packing		
Part Number-AP	Ammo Packing: 20Kpcs/Carton		
Part Number-BP	Bulk: 100Kpcs/Carton		

Note: Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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