

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)

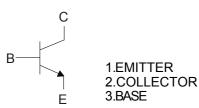
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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

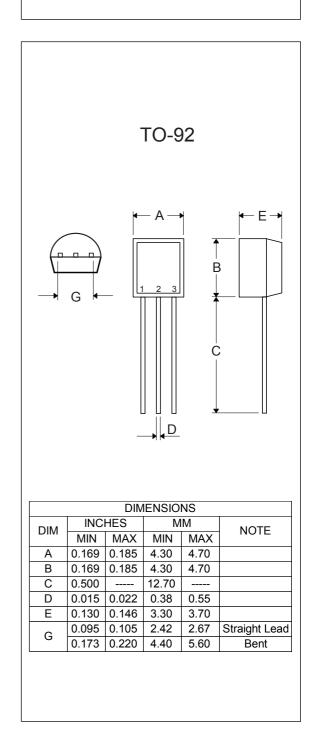
Parameter		Symbol	Rating	Unit	
Collector Rose Voltage	BF420	V _{CBO}	300	V	
Collector-Base Voltage	BF422	♥ CBO	250	v	
Collector-Emitter	BF420	V _{CEO}	300	V	
Voltage	BF422	♥ CEO	250	v	
Emitter-Base Voltage	V_{EBO}	5	V		
Continuous Collector Co	Ι _C	0.1	А		
Power Dissipation	P _D	830	mW		

Marking: Type Number

Internal Structure



NPN Silicon Plastic-Encapsulate Transistor





Electrical Characteristics @ $T_A \mbox{=} 25^\circ \mbox{C}$ 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				
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 =100μA, I _C =0
Collector Cutoff Current		I _{CBO}			0.01	μA	V _{CB} =200V, I _E =0
Emitter Cutoff Current		I _{EBO}			0.05	μA	$V_{EB}=5V, I_{C}=0$
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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