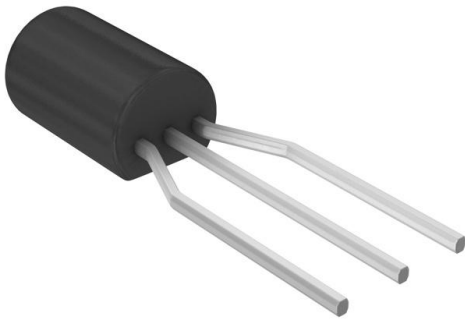


BF420-BP Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	BF420-BP-DG
Manufacturer	Micro Commercial Co
Manufacturer Product Number	BF420-BP
Description	TRANS NPN 300V 0.1A TO92
Detailed Description	Bipolar (BJT) Transistor NPN 300 V 100 mA 60MHz 8 30 mW Through Hole TO-92



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

BF420-BP

Series:

-

Transistor Type:

NPN

Voltage - Collector Emitter Breakdown (Max):

300 V

Current - Collector Cutoff (Max):

10nA (ICBO)

Power - Max:

830 mW

Operating Temperature:

-55°C ~ 150°C (TJ)

Package / Case:

TO-226-3, TO-92-3 (TO-226AA)

Base Product Number:

BF420

Manufacturer:

Micro Commercial Co

Product Status:

Obsolete

Current - Collector (Ic) (Max):

100 mA

Vce Saturation (Max) @ Ib, Ic:

600mV @ 5mA, 30mA

DC Current Gain (hFE) (Min) @ Ic, Vce:

50 @ 25mA, 20V

Frequency - Transition:

60MHz

Mounting Type:

Through Hole

Supplier Device Package:

TO-92

Environmental & Export classification

RoHS Status:

RoHS Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8541.21.0095

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	300	V
	BF422	250	
Collector-Emitter Voltage	BF420	300	V
	BF422	250	
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I_C	0.1	A
Power Dissipation	P_D	830	mW

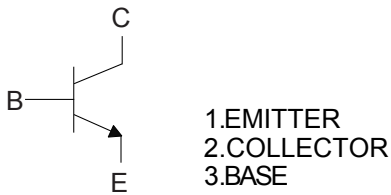
**NPN Silicon
Plastic-Encapsulate
Transistor**

TO-92

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.169	0.185	4.30	4.70	
B	0.169	0.185	4.30	4.70	
C	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

Marking: Type Number

Internal Structure



Electrical Characteristics @ $T_A=25^\circ\text{C}$ Unless Otherwise Specified

Parameter		Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	BF420	$V_{(BR)CBO}$	300			V	$I_C=100\mu\text{A}, I_E=0$
	BF422		250				
Collector-Emitter Breakdown Voltage	BF420	$V_{(BR)CEO}$	300			V	$I_C=1\text{mA}, I_B=0$
	BF422		250				
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	5			V	$I_E=100\mu\text{A}, I_C=0$
Collector Cutoff Current		I_{CBO}			0.01	μA	$V_{CB}=200\text{V}, I_E=0$
Emitter Cutoff Current		I_{EBO}			0.05	μA	$V_{EB}=5\text{V}, I_C=0$
DC Current Gain		h_{FE}	50				$V_{CE}=20\text{V}, I_C=25\text{mA}$
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$			0.6	V	$I_C=30\text{mA}, I_B=5\text{mA}$
Transition Frequency		f_T	60			MHz	$V_{CE}=10\text{V}, I_C=10\text{mA}, f=100\text{MHz}$

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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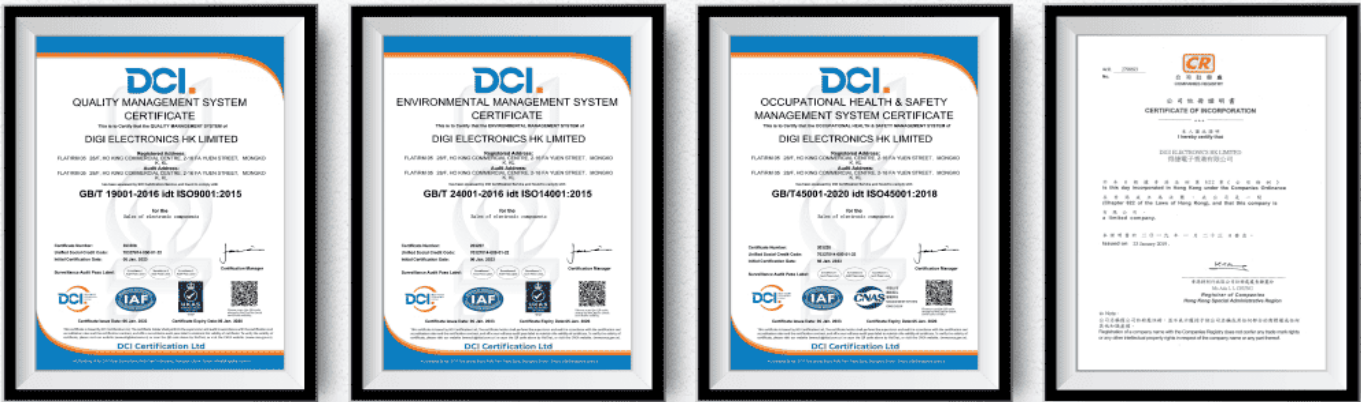
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