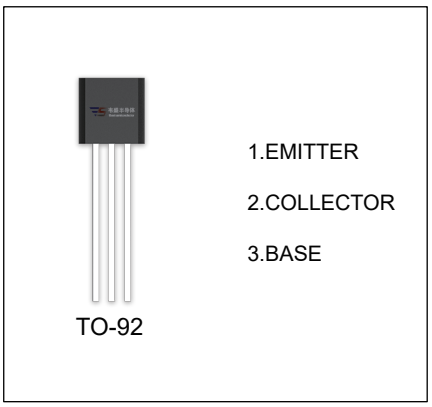
TRANSISTOR (NPN)

BF422BF420



FEATURES

- Low feedback capacitance.
- NPN transistors in a TO-92 plastic package.
  PNP complements: BF421 and BF423
- Class-B video output stages in colour
  television and professional monitor equipment.

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
BF420	TO-92	Bulk	1000pcs/Bag
BF420-TA	TO-92	Tape	2000pcs/Box
BF422	TO-92	Bulk	1000pcs/Bag
BF422-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	BF420	BF422	Unit
V_{CBO}	Collector-Base Voltage	300	250	V
V_{CEO}	Collector-Emitter Voltage	300	250	V
V_{EBO}	Emitter-Base Voltage	5		V
I_C	Collector Current -Continuous	100		mA
P_C	Collector Power Dissipation	0.830		W
R_{thja}	Thermal resistance from junction to ambient	151		℃/W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~150		℃

T_a=25℃ unless otherwise specified

Parameter		Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	BF420 BF422	$V_{(BR)CBO}$	I_C=100μA, I_E=0	300 250		V
Collector-emitter breakdown voltage	BF420 BF422	$V_{(BR)CEO}$	I_C= 1mA , I_B=0	300 250		V
Emitter-base breakdown voltage		$V_{(BR)EBO}$	I_E=100μA, I_C=0	5		V
Collector cut-off current		I_{CBO}	V_{CB}=200V, I_E=0		0.01	μA
Emitter cut-off current		I_{EBO}	V_{EB}=5V, I_C=0		0.05	μA
DC current gain		h_{FE}	V_{CE}=20V, I_C=25mA	50		
Collector-emitter saturation voltage		$V_{CE(sat)}$	I_C=30mA, I_B= 5mA		0.6	V
Transition frequency		f_T	V_{CE}=10V, I_C= 10mA f=100MHz	60		MHz
Feedback capacitance		C_{re}	V_{CE}=30V,I_C=0,f=1MHz		1.6	pF