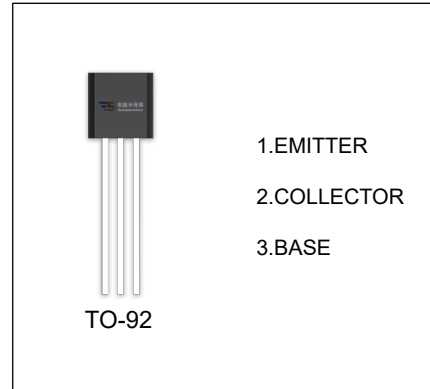


TRANSISTOR (PNP)  
**BF423BF421**

**FEATURES**

- Low Feedback Capacitance.
- PNP Transistors in a TO-92 Plastic Package.  
NPN Complements: BF420 and BF422
- Class-B Video Output Stages in Colour Television and Professional Monitor Equipment.


**ORDERING INFORMATION**

Part Number	Package	Packing Method	Pack Quantity
BF421	TO-92	Bulk	1000pcs/Bag
BF421-TA	TO-92	Tape	2000pcs/Box
BF423	TO-92	Bulk	1000pcs/Bag
BF423-TA	TO-92	Tape	2000pcs/Box

**MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)**

Symbol	Parameter	BF421	BF423	Unit
V <sub>CB0</sub>	Collector-Base Voltage	-300	-250	V
V <sub>CE0</sub>	Collector-Emitter Voltage	-300	-250	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5		V
I <sub>C</sub>	Collector Current -Continuous	-100		mA
P <sub>C</sub>	Collector Power Dissipation	0.83		W
R <sub>thja</sub>	Thermal resistance from junction to ambient	151		°C /W
T <sub>J</sub> , T <sub>stg</sub>	Operation Junction and Storage Temperature Range	- 55 ~ +150		°C

$T_a=25\text{ }^\circ\text{C}$  unless otherwise specified

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage <b>BF421</b> <b>BF423</b>	$V_{(BR)CBO}$	$I_C=-100\mu\text{A}, I_E=0$	-300 -250		V
Collector-emitter breakdown voltage <b>BF421</b> <b>BF423</b>	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-300 -250		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu\text{A}, I_C=0$	-5		V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-200\text{V}, I_E=0$		-0.01	$\mu\text{A}$
Emitter cut-off current <b>BF421</b> <b>BF423</b>	$I_{EBO}$	$V_{EB}=-5\text{V}, I_C=0$		-0.1 -0.05	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE}=-20\text{V}, I_C=-25\text{mA}$	50		
Collector-emitter saturation voltage <b>BF421</b> <b>BF423</b>	$V_{CE(sat)}$	$I_C=-20\text{mA}, I_B=-2\text{mA}$ $I_C=-30\text{mA}, I_B=-5\text{mA}$		-0.6	V
Transition frequency	$f_T$	$V_{CE}=-10\text{V}, I_C=-10\text{mA}$ $f=100\text{MHz}$	60		MHz
Feedback capacitance	$C_{re}$	$V_{CE}=-30\text{V}, I_C=0, f=1\text{MHz}$		1.6	pF