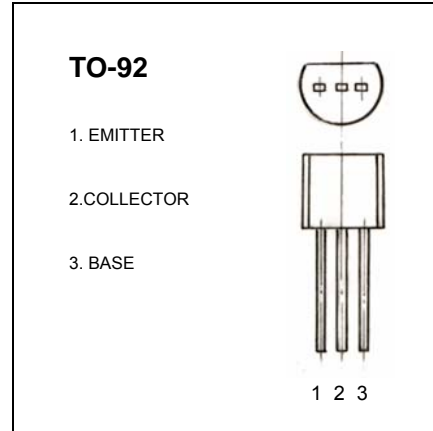


深圳市晶泰源电子有限公司

BF421 TRANSISTOR (PNP) BF423

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.



MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	BF421	BF423	Units
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	0.83		W
$R_{th\ j-a}$	thermal resistance from junction to ambient	200		$^{\circ}\text{C}/\text{W}$
T_j	junction temperature	150		$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-65to+150		$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	BF421 BF423 $V_{(BR)CBO}$	$I_C=-100\mu\text{A}, I_E=0$	-300 -250		V
Collector-emitter breakdown voltage	BF421 BF423 $V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-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	μA
Emitter cut-off current	BF421 BF423 I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$		-0.1 -0.05	μA
DC current gain	h_{FE}	$V_{CE}=-20\text{V}, I_C=-25\text{mA}$	50		
Collector-emitter saturation voltage	BF421 BF423 $V_{CE(sat)}$	$I_C=-20\text{mA}, I_B=-2\text{mA}$ $I_C=-30\text{mA}, I_B=-5\text{mA}$		-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