

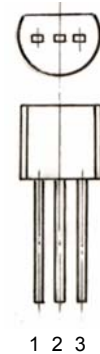
BF421 TRANSISTOR (PNP) BF423

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.

TO-92

1. EMITTER
2. COLLECTOR
3. BASE



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

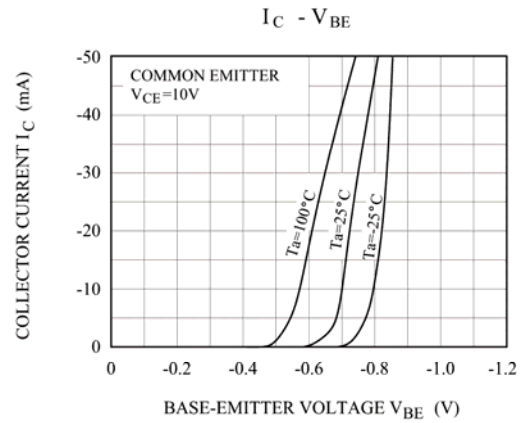
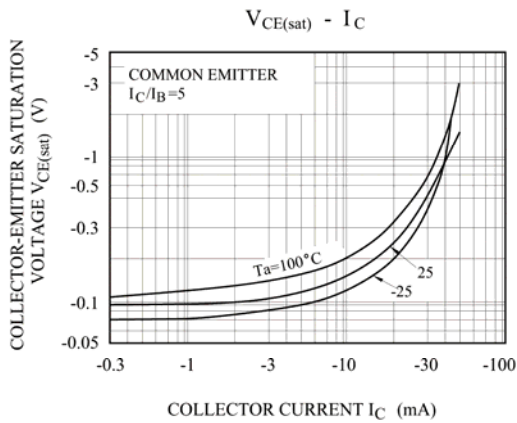
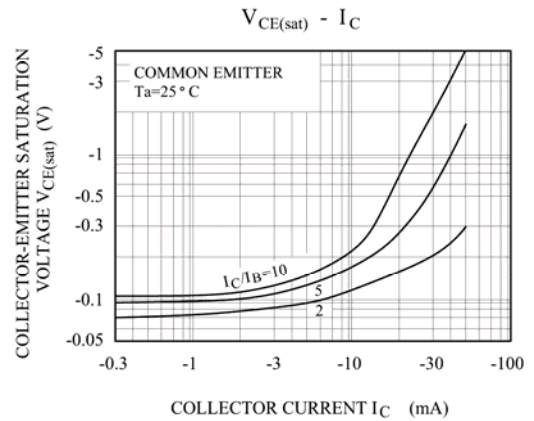
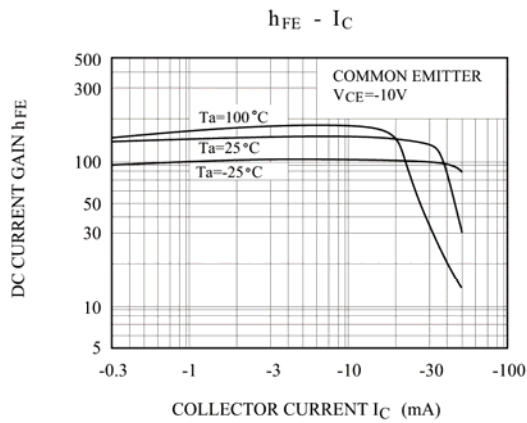
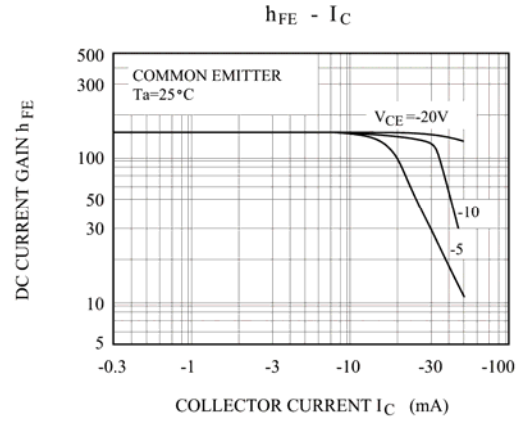
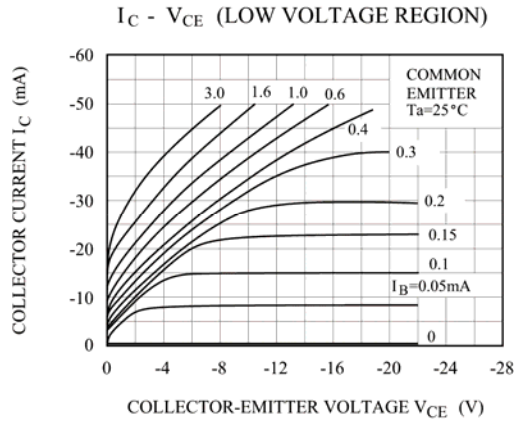
Symbol	Parameter	BF421	BF423	Units
V_{CBO}	Collector-Base Voltage	-300	-250	V
V_{CEO}	Collector-Emitter Voltage	-300	-250	V
V_{EBO}	Emitter-Base Voltage	-5		V
I_C	Collector Current -Continuous	-100		mA
P_C	Collector Power Dissipation	0.625		W
$R_{th\ j-a}$	thermal resistance from junction to ambient	150		$^{\circ}\text{C}/\text{W}$
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	μF

Typical Characteristics

BF421, BF423



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