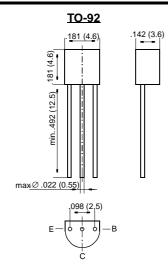
BF421, BF423

Small Signal Transistors (PNP)

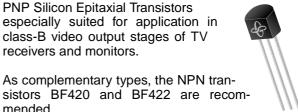
mended.



Dimensions in inches and (millimeters)

FEATURES

PNP Silicon Epitaxial Transistors especially suited for application in class-B video output stages of TV receivers and monitors.



MECHANICAL DATA

Case: TO-92 Plastic Package Weight: approx. 0.18 g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

		Symbol	Value	Unit
Collector-Base Voltage	BF421 BF423	–V _{CBO} –V _{CBO}	300 250	V V
Collector-Emitter Voltage	BF423	-V _{CEO}	250	V
Collector-Emitter Voltage	BF421	-V _{CER}	300	V
Emitter-Base Voltage		–V _{EBO}	5	V
Collector Current		-I _C	50	mA
Peak Collector Current		–I _{CM}	100	mA
Power Dissipation at T _{amb} = 25 °C		P _{tot}	830 ¹⁾	mW
Junction Temperature		Tj	150	°C
Storage Temperature Range		T _S	-65 to +150	°C



BF421, BF423

ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit
Collector-Base Breakdown Voltage at $-I_C = 100 \ \mu\text{A}, I_E = 0$ BF421 BF423	–V _{(BR)CBO} –V _{(BR)CBO}	300 250		-	V V
Collector-Emitter Breakdown Voltage BF423 at $-I_C = 10$ mA, $I_B = 0$	-V _{(BR)CEO}	250	-	-	V
Collector-Emitter Breakdown Voltage BF421 at R_{BE} = 2.7 k Ω , at $-I_{C}$ = 10 mA	-V _{(BR)CER}	300	-	-	V
Emitter-Base Breakdown Voltage at $-I_E = 100 \ \mu A$, $I_C = 0$	-V _{(BR)EBO}	5	-	-	V
Collector-Base Cutoff Current at $-V_{CB} = 200 \text{ V}, I_E = 0$	-I _{CBO}	_	-	10	nA
Collector-Emitter Cutoff Current at $R_{BE} = 2.7 \text{ k}\Omega$, $-V_{CE} = 250 \text{ V}$ at $R_{BE} = 2.7 \text{ k}\Omega$, $-V_{CE} = 200 \text{ V}$, $T_j = 150 \text{ °C}$	-I _{CER} -I _{CER}			50 10	nA μA
Collector Saturation Voltage at $-I_C = 30 \text{ mA}$, $-I_B = 5 \text{ mA}$	-V _{CEsat}	_	-	0.8	V
DC Current Gain at $-V_{CE} = 20 \text{ V}, -I_{C} = 25 \text{ mA}$	h _{FE}	50	-	-	-
Gain-Bandwidth Product at $-V_{CE} = 10 \text{ V}, -I_{C} = 10 \text{ mA}$	f _T	60	-	-	MHz
Feedback Capacitance at $-V_{CE} = 30 \text{ V}, -I_{C} = 0, \text{ f} = 1 \text{ MHz}$	C _{re}	_	-	1.6	pF
Thermal Resistance Junction to Ambient Air	R _{thJA}	_	_	150 ¹⁾	K/W
¹⁾ Valid provided that leads are kept at ambient to	emperature at a	distance o	f 2 mm from	case.	

