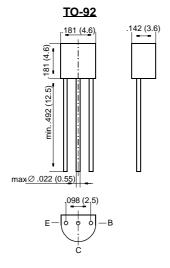


EN: This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

BF421, BF423

Small Signal Transistors (PNP)



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.



 As complementary types, the NPN transistors BF420 and BF422 are recommended.

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}	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
1) Valid provided that leads are kent at ambi	ent temperature at	a distance of 2	mm from case	1

 $^{^{\}prime\prime}$ Valid provided that leads are kept at ambient temperature at a distance of 2 mm from case.



BF421, BF423

ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit
Collector-Base Breakdown Voltage at $-I_C = 100 \mu A$, $I_E = 0$ BF421 BF423	-V _(BR) CBO -V _(BR) CBO	300 250			V
Collector-Emitter Breakdown Voltage at $-I_C = 10$ mA, $I_B = 0$	-V _{(BR)CEO}	250	_	_	V
Collector-Emitter Breakdown Voltage 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 V, I _E = 0	-I _{CBO}	-	_	10	nA
Collector-Emitter Cutoff Current at R _{BE} = 2.7 k Ω , $-V_{CE}$ = 250 V at R _{BE} = 2.7 k Ω , $-V_{CE}$ = 200 V, T _j = 150 °C	-I _{CER}			50 10	nA μA
Collector Saturation Voltage at $-I_C = 30$ mA, $-I_B = 5$ mA	-V _{CEsat}	_	_	0.8	V
DC Current Gain at -V _{CE} = 20 V, -I _C = 25 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 V, -I _C = 0, f = 1 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 temperature at a distance of 2 mm from case.

