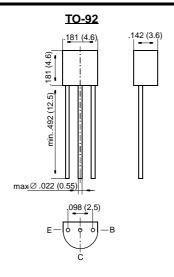
BF421, BF423

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

-V _{CBO} -V _{CBO} -V _{CEO}	300 250 250 300	V V V
-V _{CER}		
-	300	V
.,		
-V _{EBO}	5	V
-I _C	50	mA
-I _{CM}	100	mA
P _{tot}	830 ¹⁾	mW
Tj	150	°C
T _S	-65 to +150	°C
- -	-I _{CM} P _{tot} T _j T _S	-I _C 50 -I _{CM} 100 P _{tot} 830¹¹) T _j 150

 $^{^{\}prime}$ 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 $-I_C = 100 \mu A$, $I_E = 0$ BF423	-V _(BR) CBO -V _(BR) CBO	300 250			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 $k\Omega_r$ 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 $k\Omega$, $-V_{CE}$ = 250 V at R_{BE} = 2.7 $k\Omega$, $-V_{CE}$ = 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 V, –I _C = 10 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.

