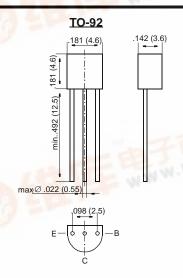
BF421, BF423

Small Signal Transistors (PNP)



Dimensions in inches and (millimeters)

WWW.DZSD

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	
BF421 BF423	-V _{CBO}	300 250	V V	
BF423	-V _{CEO}	250	V	
BF421	-V _{CER}	300	V	
C.COM	-V _{EBO}	5	V	
Collector Current		50	mA	
	-I _{CM}	100	mA	
	P _{tot}	8301)	mW	
	T _j	150	°C	
Storage Temperature Range		-65 to +150	°C	
	BF423 BF423	BF421	BF421 -V _{CBO}	



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 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 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 $-I_C = 30 \text{ mA}$, $-I_B = 5 \text{ mA}$	-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 $-V_{CE} = 30 \text{ V}$, $-I_{C} = 0$, 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.

