



Micro Commercial Components



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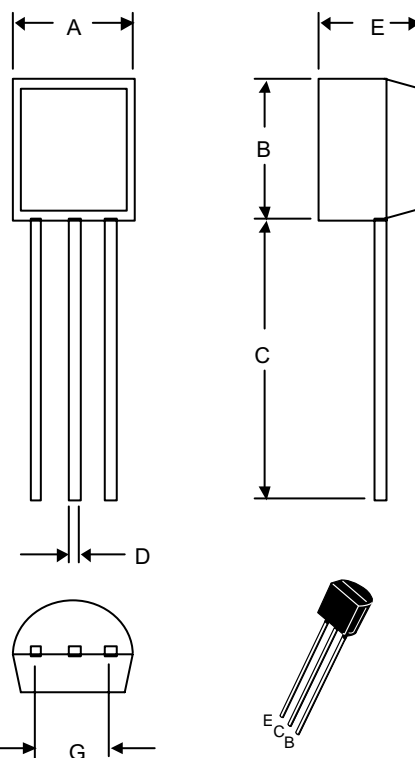
**BF421**  
**BF423**

## Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 0.83Watts of Power Dissipation.
- Collector-current 0.1A
- Collector-base Voltage: BF421 300V  
BF423 250V
- Operating and storage junction temperature range: -55°C to +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: Type Number

**PNP Silicon**  
**Plastic-Encapsulate**  
**Transistor**

TO-92



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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### OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=1.0mA$ , $I_B=0$ )	BF421 300 BF423 250	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=100\mu A$ , $I_E=0$ )	BF421 300 BF423 250	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E=100\mu A$ , $I_C=0$ )	5.0	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=200Vdc$ , $I_E=0$ )	---	0.01	$\mu A$
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=5.0Vdc$ , $I_C=0$ )	---	0.05	$\mu A$

### ON CHARACTERISTICS

$h_{FE}$	DC Current Gain ( $I_C=25mA$ , $V_{CE}=20Vdc$ )	50	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=30mA$ , $I_B=5.0mA$ )	---	0.6	Vdc
$f_T$	Transition Frequency ( $V_{CE}=10Vdc$ , $I_C=10mA$ , $f=100MHz$ )	60	---	MHz

### DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

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### Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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