



Micro Commercial Components

Micro Commercial Components  
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**BF421**  
**BF423**

## Features

- 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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1
- Marking: Type Number
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)

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

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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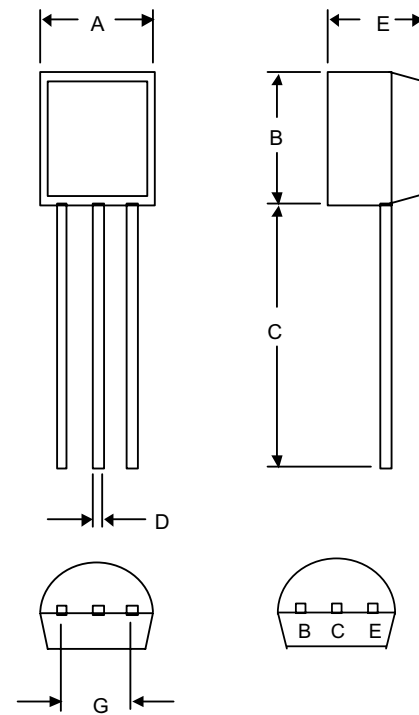
### OFF CHARACTERISTICS

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

### ON CHARACTERISTICS

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

TO-92



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	.010	.104	2.44	2.64	

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## Ordering Information

Device	Packing
(Part Number)-AP	Ammo Packing;2Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Bag

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