



Micro Commercial Components

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Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 1.0Watts of Power Dissipation.
- Collector-current 1.5A
- Collector-base Voltage 700V
- Operating and storage junction temperature range: -55°C to +150°C
- Case Material: Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 1
- Marking: 3DD13003

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 ($I_C=10\text{mAdc}$, $I_B=0$)	400		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=1000\text{uAdc}$, $I_E=0$)	700		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=1000\text{uAdc}$, $I_C=0$)	9.0		Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=700\text{Vdc}$, $I_E=0$)		1000	uAdc
I_{CEO}	Collector Cutoff Current ($V_{CE}=400\text{Vdc}$, $I_B=0$)		500	uAdc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=7.0\text{Vdc}$, $I_C=0$)		100	uAdc

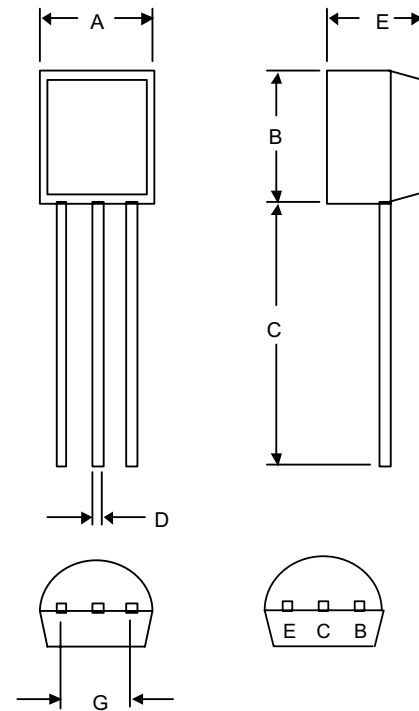
ON CHARACTERISTICS

h_{FE}	DC Current Gain ($I_C=0.4\text{Adc}$, $V_{CE}=10\text{Vdc}$)	20	40	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500\text{mAdc}$, $I_B=100\text{mAdc}$)		0.8	Vdc
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=1500\text{mAdc}$, $I_B=500\text{mAdc}$)		3.0	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=500\text{mAdc}$, $I_B=100\text{mAdc}$)		1.0	Vdc

MJE13003B

NPN Silicon Plastic-Encapsulate Transistor

TO-92



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	

www.mccsemi.com



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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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