



Micro Commercial Components



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MJE13003B

NPN Silicon Plastic-Encapsulate Transistor

Features

- Halogen free available upon request by adding suffix "-HF"
- 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
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:3DD13003

Electrical Characteristics @ 25°C Unless Otherwise Specified

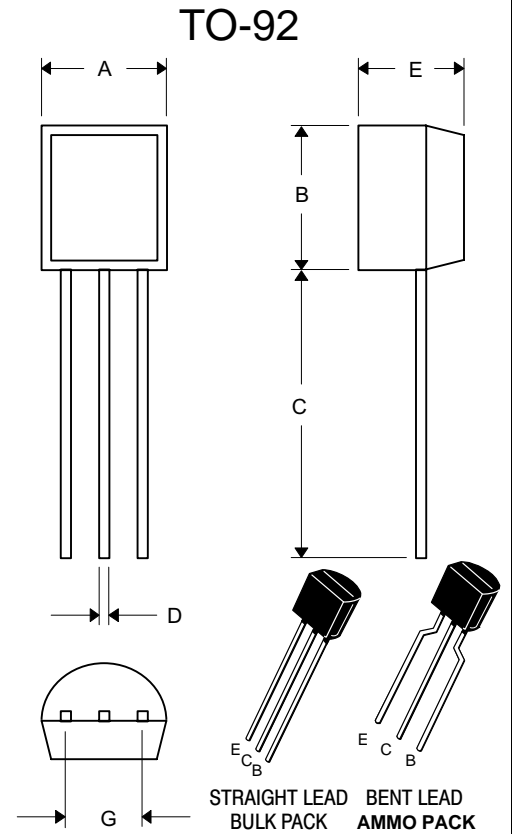
Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

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

ON CHARACTERISTICS

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



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	—	12.70	—	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

* For ammo packing detailed specification, click here to visit our website of product packaging for details.



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Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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