



Micro Commercial Components

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MJE13002B

Features

- Capable of 900mWatts of Power Dissipation.
- Collector-current 0.8A
- Collector-base Voltage 600V
- 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
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=1.0mA, I_B=0$)	400		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu A, I_E=0$)	600		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=100\mu A, I_C=0$)	6.0		Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=600Vdc, I_E=0$)		100	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=6.0Vdc, I_C=0$)		100	μA

ON CHARACTERISTICS

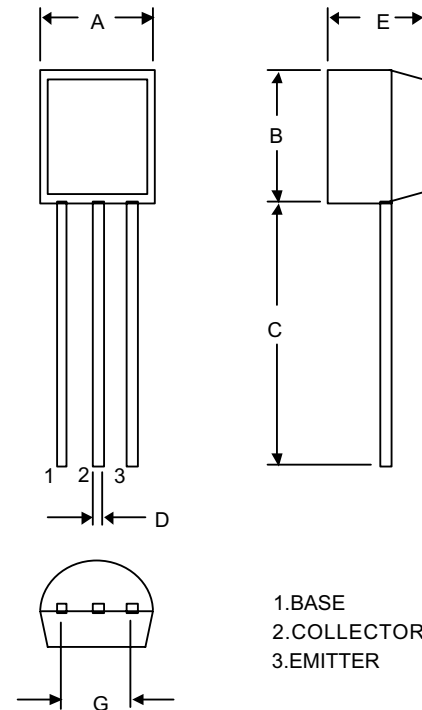
$h_{FE(1)}$	DC Current Gain ($I_C=10mA, V_{CE}=10Vdc$)	6		
$h_{FE(2)}$	DC Current Gain ($I_C=200mA, V_{CE}=10Vdc$)	9.0	40	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=200mA, I_B=40mA$)		0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=200mA, I_B=40mA$)		1.1	Vdc

SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency ($I_C=100mA, V_{CE}=10Vdc, f=1.0MHz$)	5.0		MHz
t_F	Fall Time		0.5	μS
t_S	Storage Time	$V_{CC}=100V, I_C=1.0A, I_B=I_C=0.2A$	2.5	μS

NPN Silicon Plastic-Encapsulate Transistor

TO-92



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.46	4.70	
C	.500	---	12.7	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	



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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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