

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 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 (b=1.0mAdc, b=0)	400		Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (b=100uAdc, l=0)	600		Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (_E =100uAdc, _{Ic} =0)	6.0		Vdc	
I _{CBO}	Collector Cutoff Current (V _{CB} =600Vdc, I _E =0)		100	uAdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =6.0Vdc, I _C =0)		100	uAdc	

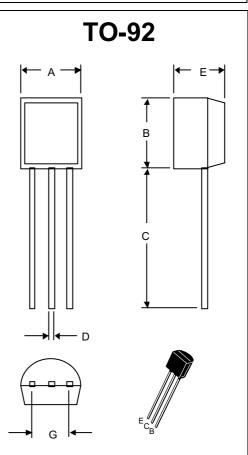
ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain			
	(l _c =10mAdc, V _{c∈} =10Vdc)	6		
h _{FE(2)}	DC Current Gain			
. ,	(l₀=200mAdc, V _{CE} =10Vdc)	9.0	40	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			
` ′	(├=200mAdc, ├=40mAdc)		0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage			
. ,	(l _c =200mAdc, l₃=40mAdc)		1.1	Vdc

SMALL-SIGNAL CHARACTERISTICS

f⊤	Transistor Frequency				
	(l _c =100mAdc, V _{cE} =10Vdc, f=1.0MHz)		5.0		MHz
t _F	Fall Time	V _{CC} =100V,I _C =1.0A,		0.5	uS
t _S	Storage Time	$I_{B1} = I_{B2} = 0.2A$		2.5	uS

NPN Silicon Plastic-Encapsulate Transistor



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.46	4.70	
O	.500		12.7		
D	.016	.020	0.41	0.63	
Е	.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/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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