

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939

MJE13001

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 1.0Watts of Power Dissipation.
- Collector-current 0.2A
- 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

Marking: 13001 Halogen free available upon request by adding suffix "-HF" Electrical Characteristics @ 250C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units		
OFF CHARAC	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, b=0)	600		Vdc		
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (_E =100uAdc, _{Ic} =0)	7.0		Vdc		
Сво	Collector Cutoff Current (V _{CB} =600Vdc, I _E =0)		100	uAdc		
peo	Collector Cutoff Current (V _{CE} =400Vdc,I _B =0)		200	uAdc		
I _{EBO}	Emitter Cutoff Current (V _{EB} =7.0Vdc, I _C =0)		100	uAdc		

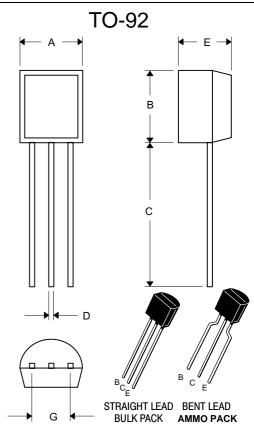
ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain			
	(⊱=20mAdc, V _{CE} =20Vdc)	10	40	
h _{FE(2)}	DC Current Gain			
	(├=0.25mAdc, V _{CE} =10Vdc)	5.0		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			
	(├=50mAdc, l _B =10mAdc)		0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage			
	(l_c =50mAdc, l_B =10mAdc)		1.2	Vdc
V_{BE}	Base-Emitter Voltage			
	(<u></u> =100mAdc)		1.1	Vdc

SMALL-SIGNAL CHARACTERISTICS

f _T	Transistor Frequency				
	(b=20mAdc, Vce=20Vdc, f=1.0MHz)		8.0		MHz
t _F	Fall Time	V _{CC} =45V,l _C =50mA		0.3	uS
ts	Storage Time	$I_{B1} = I_{B2} = 5.0 \text{mA}$		1.5	uS

NPN Silicon Plastic-Encapsulate Transistor

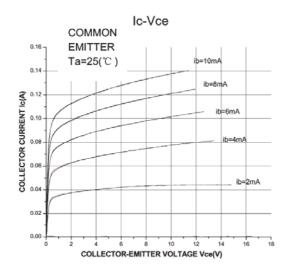


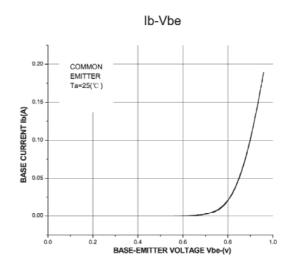
DIMENSIONS					
	INCHI	ΞS	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
С	.500	-	12.70		
D	.016	.020	0.41	0.63	
Е	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

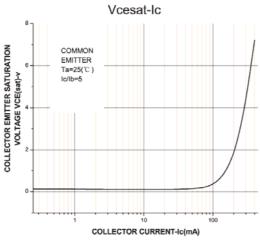
^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

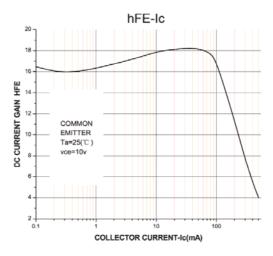


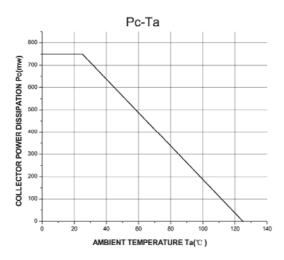
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Ordering Information:

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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