



Micro Commercial Components



Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311

Phone: (818) 701-4933

Fax: (818) 701-4939

MPS2222-L

MPS2222-H

## Features

- Through Hole Package
- Capable of 625mWatts of Power Dissipation
- Collector-current :0.6A
- Operating and storage junction temperature range:  
T<sub>j</sub>.Tstg:-55°C to+150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:Type number
- 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
<b>OFF CHARACTERISTICS</b>				
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =10mAdc, I <sub>B</sub> =0)	30		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =10μAdc, I <sub>E</sub> =0)	60		Vdc
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (I <sub>E</sub> =10μAdc, I <sub>C</sub> =0)	5.0		Vdc
I <sub>CBO</sub>	Base Cutoff Current (V <sub>CB</sub> =50Vdc, I <sub>E</sub> =0)		0.1	uAdc
I <sub>CEO</sub>	Collector Cutoff Current (V <sub>CB</sub> =3.0Vdc, I <sub>C</sub> =0)		0.1	uAdc

### ON CHARACTERISTICS

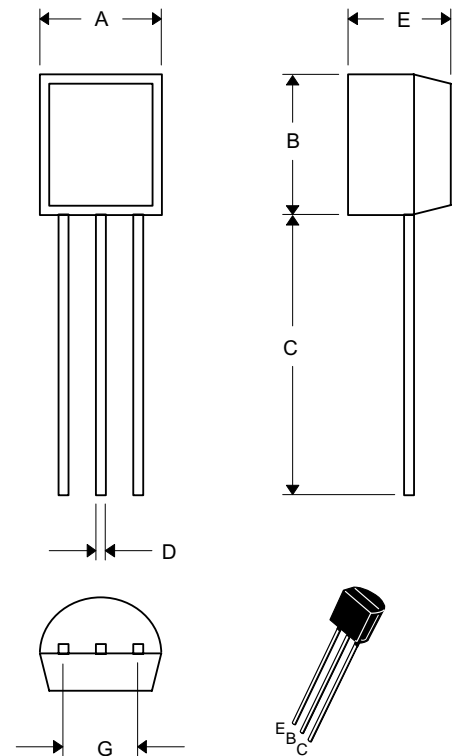
h <sub>FE</sub>	DC Current Gain			
h <sub>FE(1)</sub>	(I <sub>C</sub> =1.0mAdc, V <sub>CE</sub> =10Vdc)	100	300	
h <sub>FE(2)</sub>	(I <sub>C</sub> =150mAdc, V <sub>CE</sub> =10Vdc)	60		
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =500mAdc, I <sub>B</sub> =50mAdc)		1.0	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (I <sub>C</sub> =500mAdc, I <sub>B</sub> =50mAdc)		2.0	Vdc
f <sub>T</sub>	Transition frequency (I <sub>C</sub> =20mAdc, V <sub>CE</sub> =20Vdc, f=100MHz)	300		MHz

### CLASSIFICATION OF h<sub>FE(1)</sub>

Rank	L	H
Range	100-200	200-300

## NPN General Purpose Amplifier

### TO-92



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	-----	12.70	-----	
D	.016	.020	0.41	0.56	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	

[www.mccsemi.com](http://www.mccsemi.com)



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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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