

M·C·C·

Micro Commercial Components



Micro Commercial Components
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Features

- Halogen free available upon request by adding suffix "-HF"
- Through Hole Package
- Capable of 625mWatts of Power Dissipation
- Collector-current :0.6A
- Operating and storage junction temperature range:
 $T_j, T_{stg}:-55^{\circ}\text{C}$ to $+150^{\circ}\text{C}$
- 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
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_c=10\text{mA}_\text{dc}$, $I_b=0$)	30		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_c=10\mu\text{A}_\text{dc}$, $I_e=0$)	60		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_e=10\mu\text{A}_\text{dc}$, $I_c=0$)	5.0		Vdc
I_{CBO}	Base Cutoff Current ($V_{CB}=50\text{Vdc}$, $I_e=0$)		0.1	μA_dc
I_{CEO}	Collector Cutoff Current ($V_{CB}=3.0\text{Vdc}$, $I_c=0$)		0.1	μA_dc

ON CHARACTERISTICS

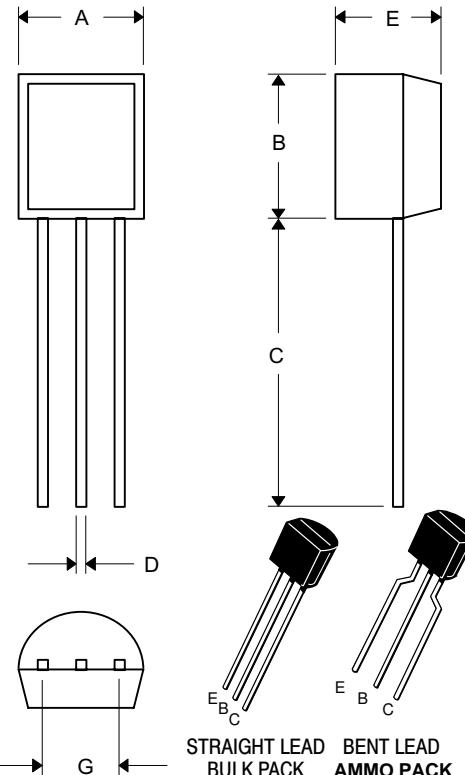
h_{FE}	DC Current Gain ($I_c=1.0\text{mA}_\text{dc}$, $V_{CE}=10\text{Vdc}$)	100	300	
$h_{FE(1)}$	($I_c=150\text{mA}_\text{dc}$, $V_{CE}=10\text{Vdc}$)	60		
$h_{FE(2)}$				
$V_{CE(\text{sat})}$	Collector-Emitter Saturation Voltage ($I_c=500\text{mA}_\text{dc}$, $I_b=50\text{mA}_\text{dc}$)		1.0	Vdc
$V_{BE(\text{sat})}$	Base-Emitter Saturation Voltage ($I_c=500\text{mA}_\text{dc}$, $I_b=50\text{mA}_\text{dc}$)		2.0	Vdc
f_T	Transition frequency ($I_c=20\text{mA}_\text{dc}$, $V_{CE}=20\text{Vdc}$, $f=100\text{MHz}$)	300		MHz

CLASSIFICATION OF $h_{FE(1)}$

Rank	L	H
Range	100-200	200-300

MPS2222-L**MPS2222-H**

NPN General Purpose Amplifier

TO-92

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.

www.mccsemi.com

Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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

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