



Micro Commercial Components

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PN2222-L

PN2222-H

Features

- Through Hole Package
- Capable of 625mWatts of Power Dissipation
- Collector-current :0.6A
- Operating and storage junction temperature range:
 $T_j, T_{stg}: -55^{\circ}\text{C to } +150^{\circ}\text{C}$
- Marking: Type number
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=10\text{mA}, I_B=0$)	30		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=10\mu\text{A}, I_E=0$)	60		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\mu\text{A}, I_C=0$)	5.0		Vdc
I_{CBO}	Base Cutoff Current ($V_{CB}=50\text{Vdc}, I_E=0$)		0.1	μA
I_{CEO}	Collector Cutoff Current ($V_{CE}=3.0\text{Vdc}, I_C=0$)		0.1	μA

ON CHARACTERISTICS

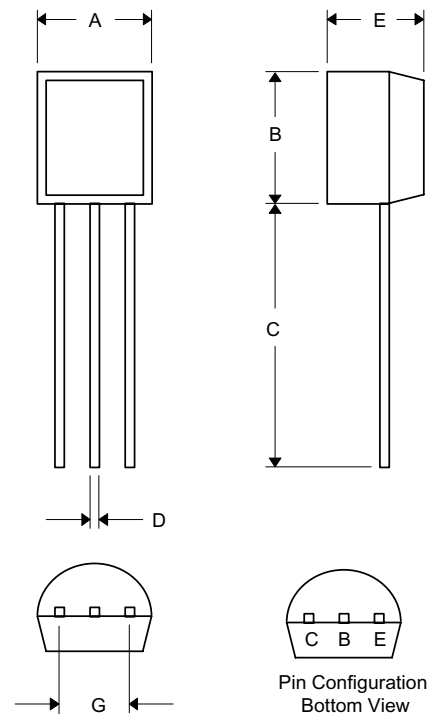
h_{FE}	DC Current Gain			
$h_{FE(1)}$	($I_C=1.0\text{mA}, V_{CE}=10\text{Vdc}$)	100	300	
$h_{FE(2)}$	($I_C=150\text{mA}, V_{CE}=10\text{Vdc}$)	60		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500\text{mA}, I_B=50\text{mA}$)		1.0	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=500\text{mA},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

CLASSIFICATION OF $h_{FE(1)}$

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



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Ordering Information

Device	Packing
(Part Number)-AP	Tape&Reel;2Kpcs/Box
(Part Number)-BP	Bulk;1Kpcs/Bag

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