



Micro Commercial Components



Micro Commercial Components  
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**PN2222-L**  
**PN2222-H**

**NPN General  
 Purpose Amplifier**

**Features**

- Through Hole Package
- Capable of 625mWatts of Power Dissipation
- Collector-current :0.6A
- Operating and storage junction temperature range:  
 $T_j.Tstg:-55^{\circ}C$  to  $+150^{\circ}C$
- Marking:Type number
- Lead Free Finish/RoHS Compliant ("P" Suffix designates  
 RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

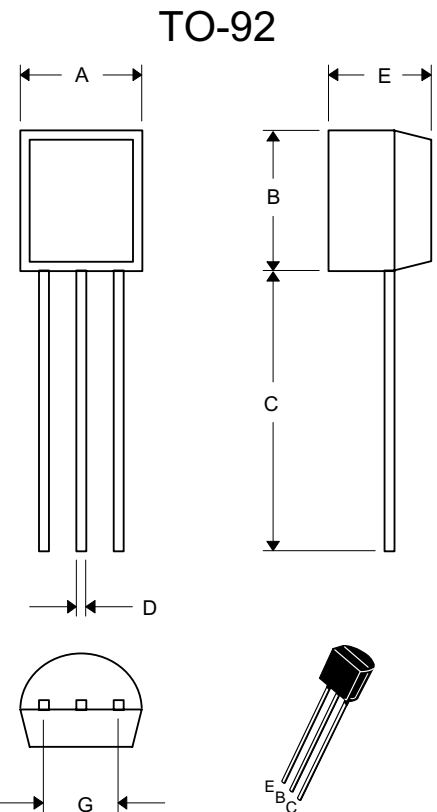
Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS</b>				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=10mA$ , $I_B=0$ )	30		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=10\mu A$ , $I_E=0$ )	60		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E=10\mu A$ , $I_C=0$ )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

**ON CHARACTERISTICS**

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

**CLASSIFICATION OF  $h_{FE(1)}$**

Rank	L	H
Range	100-200	200-300



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	



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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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