



Micro Commercial Components



Micro Commercial Components  
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## Features

- Halogen free available upon request by adding suffix "-HF"
- Collector Current:  $I_{CM}=0.6A$
- Collector-Base Voltage:  $V_{(BR)CBO}=160V$
- Operating And Storage Temperatures  $-55^{\circ}C$  to  $150^{\circ}C$
- Capable of 625mWatts of Power Dissipation
- 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
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### OFF CHARACTERISTICS

$V_{(BR)CEO}^*$	Collector-Emitter Breakdown Voltage ( $I_C=1.0mA$ , $I_B=0$ )	140	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=100\mu A$ , $I_E=0$ )	160	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E=10\mu A$ , $I_C=0$ )	6.0	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=100Vdc$ , $I_E=0$ )	---	0.1	$\mu A$
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=4.0Vdc$ , $I_C=0$ )	---	50	nA

### ON CHARACTERISTICS

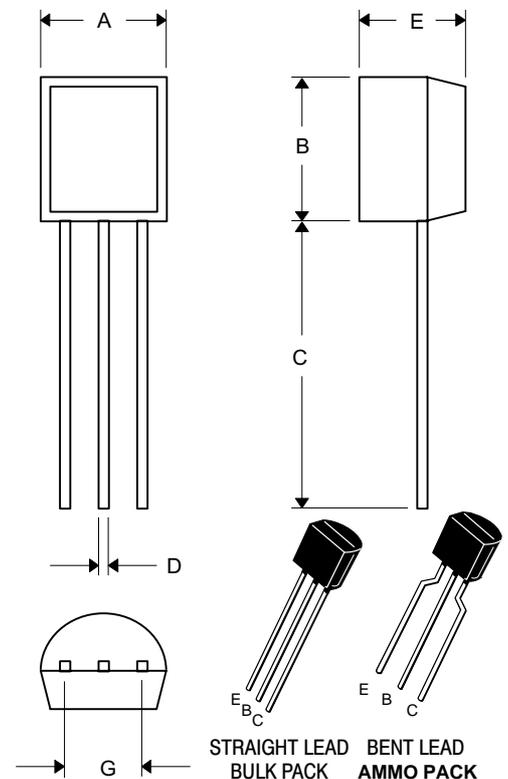
$h_{FE-1}$	DC Current Gain ( $V_{CE}=5.0Vdc$ , $I_C=1.0mA$ )	60	---	---
$h_{FE-2}$	DC Current Gain ( $V_{CE}=5.0Vdc$ , $I_C=10mA$ )	60	---	250
$h_{FE-3}$	DC Current Gain ( $V_{CE}=5.0Vdc$ , $I_C=50mA$ )	20	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=10mA$ , $I_B=1.0mA$ ) ( $I_C=50mA$ , $I_B=5.0mA$ )	---	0.15 0.25	Vdc Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ( $I_C=10mA$ , $I_B=1.0mA$ ) ( $I_C=50mA$ , $I_B=5.0mA$ )	---	1.0 1.2	Vdc Vdc
$f_t$	Transition frequency ( $V_{CE}=10V$ , $I_C=10mA$ , $f=100MHz$ )	100	300	MHz
$C_{ob}$	Collector output capacitance ( $V_{CB}=10V$ , $I_E=0$ , $f=1MHz$ )	---	6	pF
NF	Noise figure ( $V_{CE}=5V$ , $I_C=0.25mA$ , $f=1KHz$ )	---	6	pF

\*Pulse test: pulse width <300uS, duty cycle< 2.0%

# 2N5550

## NPN Plastic Encapsulate Transistor

### TO-92



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



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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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