

M·C·C·

Micro Commercial Components



Micro Commercial Components
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**2SC1008-R
2SC1008-O
2SC1008-Y
2SC1008-G**

Features

- 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
- General Purpose Switching and Amplification
- Capable of 0.8Watts of Power Dissipation.
- Collector-current 0.7A
- Collector-base Voltage 80V
- Marking : C1008
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C=10\text{mA}$, $I_B=0$)	60		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\text{\mu A}$, $I_E=0$)	80		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\text{\mu A}$, $I_C=0$)	8		Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=60\text{Vdc}$, $I_E=0\text{Adc}$)		0.1	\mu Adc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5.0\text{Vdc}$, $I_C=0\text{Adc}$)		0.1	\mu Adc

ON CHARACTERISTICS

h_{FE}	DC Current Gain* ($I_C=50\text{mA}$, $V_{CE}=2.0\text{Vdc}$)	40	400	
$V_{CE(\text{sat})}$	Collector-Emitter Saturation Voltage ($I_C=500\text{mA}$, $I_B=50\text{mA}$)		0.4	Vdc
$V_{BE(\text{sat})}$	Base-Emitter Saturation Voltage ($I_C=500\text{mA}$, $I_B=50\text{mA}$)		1.1	Vdc
C_{ob}	Collector Output Capacitance ($V_{CB}=10\text{Vdc}$, $I_C=0$, $f=1\text{MHz}$)	Typ 8		pF

SMALL-SIGNAL CHARACTERISTICS

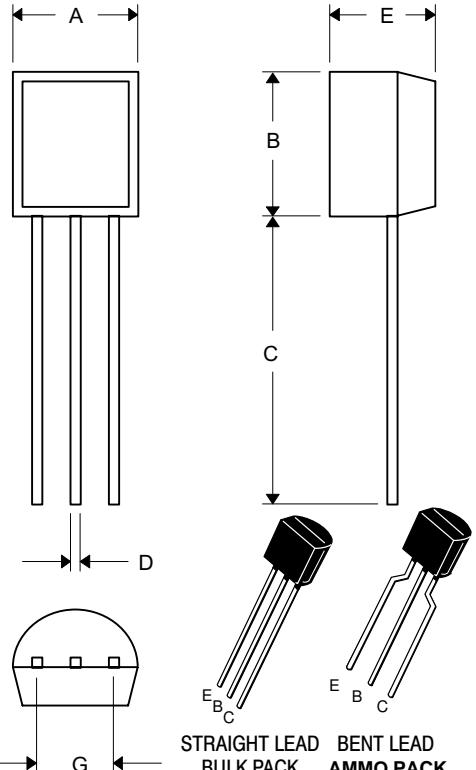
f_T	Transistor Frequency ($I_C=50\text{mA}$, $V_{CE}=10\text{Vdc}$)	30		MHz
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CLASSIFICATION OF H_{FE}

Rank	R	O	Y	G
Range	40-80	70-140	120-240	200-400

NPN Silicon Epitaxial 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

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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