



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

**NPN Silicon
 Epitaxial Transistor**

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

ON CHARACTERISTICS

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

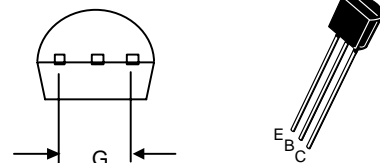
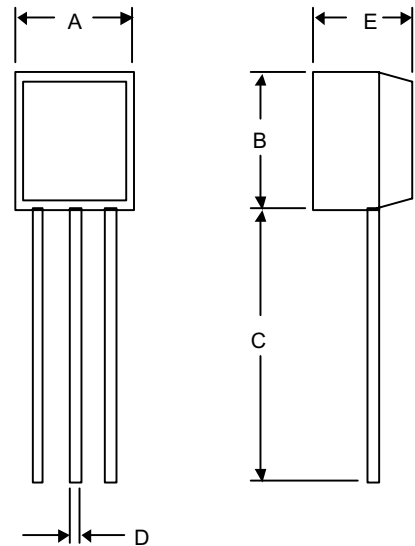
SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency ($I_C=50\text{mAdc}$, $V_{CE}=10\text{Vdc}$)	30		MHz
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CLASSIFICATION OF $h_{FE(1)}$

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

TO-92



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	

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TM

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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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