

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 S9012-G S9012-H S9012-I

Features

- TO-92 Plastic-Encapsulate Transistors
- Capable of 0.625Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: S9012
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol Parameter Min Max **OFF CHARACTERISTICS** Collector-Base Breakdown Voltage 40 ---Vdc $V_{(BR)CBO}$ (l_c=100uAdc, l_∈=0) Collector-Emitter Breakdown Voltage 25 Vdc $V_{(BR)CEO}$ $(I_{c}=0.1 \text{mAdc}, I_{B}=0)$ Emitter-Base Breakdown Voltage 5.0 $V_{(BR)EBO} \\$ Vdc $(k=100uAdc, l_c=0)$ Collector Cutoff Current 0.1 uAdc I_{CBO} (V_{CB}=40Vdc, _E=0) Collector Cutoff Current 0.2 uAdc **I**CEO (V_{CE}=20Vdc, I_B=0) **Emitter Cutoff Current** 0.1 uAdc **I**EBO (V_{EB}=5.0Vdc, ⋅ =0) ON CHARACTERISTICS

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h _{FE(1)}	DC Current Gain	64	400	
	(lc=1mAdc, VcE=4.0Vdc)			
h _{FE(2)}	DC Current Gain	40		
	(l _c =500mAdc, V _{CE} =1.0Vdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.6	Vdc
. ,	(l_c =500mAdc, l_B =50mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	1.2 Vdc		
. ,	(l_c =500mAdc, l_B =50mAdc)			
V _{EB}	Base- Emitter Voltage		1.4	Vdc
	(

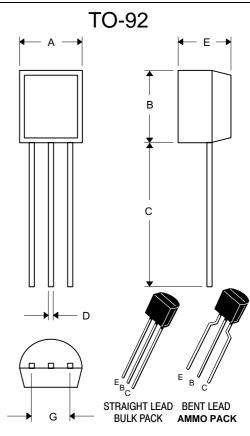
SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency	150		MHz
	(b=20mAdc, V _{CE} =6.0Vdc, f=30MHz)			

CLASSIFICATION OF HEED

Rank	G	Н	1
Range	112 -166	144 -202	190 -300

PNP Silicon Transistors



DIMENSIONS					
	INCHE	ES .	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
O	.500		12.70		
D	.016	.020	0.41	0.63	
Ш	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.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

1 of 2

Revision: D 2013/01/01



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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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