

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=100µAdc, l_∈=0) $V_{(BR)CEO} \\$ Collector-Emitter Breakdown Voltage 25 Vdc $(l_c=0.1 \text{mAdc}, l_B=0)$ Emitter-Base Breakdown Voltage 5.0 $V_{(BR)EBO} \\$ Vdc $(k=100 \mu Adc, k=0)$ Collector Cutoff Current 0.1 μAdc I_{CBO} (V_{CB}=40Vdc, E=0) Collector Cutoff Current 0.2 **I**CEO μAdc (V_{CE}=20Vdc, I_B=0) **Emitter Cutoff Current** 0.1 **I**EBO uAdc ON CHARACTERISTICS

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

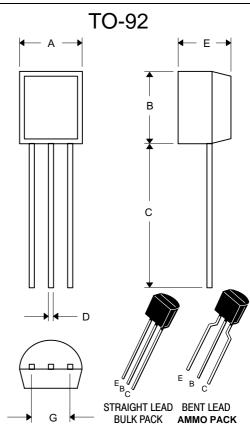
CMAIL CICUAL CHADACTEDICTICS

SMALL-SIGNAL GRANAG I ENIS I 163				
f⊤	Transistor Frequency	150		MHz
	$(b=20m\Delta dc)/a==6.0V/dc f=30MHz$			

CLASSIFICATION OF HEED

Rank	G	Н	
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	
Е	.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

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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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