

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

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 .

Base-Emitter Saturation Voltage

(L=20mAdc, V_{CE}=6.0Vdc, f=30MHz)

Н

144 -202

 $(l_c=500 \text{ mAdc}, l_B=50 \text{ mAdc})$

Base- Emitter Voltage

Transistor Frequency

G

112 - 166

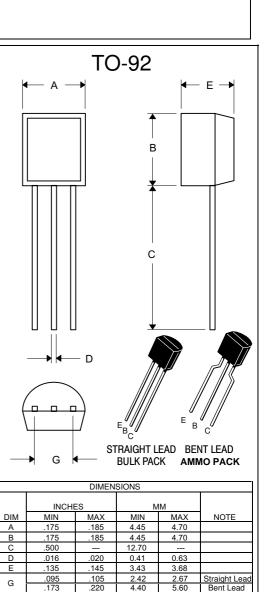
SMALL-SIGNAL CHARACTERISTICS

CLASSIFICATION OF HEELD

- Moisure Sensitivity Level 1
- 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)CBO}	Collector-Base Breakdown Voltage	40		Vdc	
	(l _c =100uAdc, l _E =0)				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	25		Vdc	
	(l _c =0.1mAdc, l _B =0)				
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	5.0		Vdc	
	(l _E =100uAdc, l _c =0)				
I _{сво}	Collector Cutoff Current		0.1	uAdc	
	(V _{CB} =40Vdc, <u></u>		[
ICEO	Collector Cutoff Current		0.2	uAdc	
	(V _{CE} =20Vdc, <u>b</u> =0)				
I _{EBO}	Emitter Cutoff Current		0.1	uAdc	
	(V _{EB} =5.0Vdc, <u></u> _=0)				
ON CHARACTERISTICS					
h _{FE(1)}	DC Current Gain	64	400		
	(L=1mAdc, V _{CE} =4.0Vdc)				
h _{FE(2)}	DC Current Gain	40			
	(Ե=500mAdc, V _{CE} =1.0Vdc)				
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.6	Vdc	
· ·	(l _c =500mAdc, l _B =50mAdc)				



S9012-G

S9012-H

S9012-I

PNP Silicon

Transistors

2.42 For ammo packing detailed specification, click here to visit our website of product packaging for details

www.mccsemi.com

1.2

1.4

190 - 300

150

Vdc

Vdc

MHz

G

V_{BE(sat)}

 V_{EB}

 \mathbf{f}_{T}

Rank

Range



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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