

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 S9014-B S9014-C S9014-D

Features

- TO-92 Plastic-Encapsulate Transistors
- Capable of 0.4Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.1A
- Collector-base Voltage 50V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: S9014
- 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 **OFF CHARACTERISTICS** Collector-Base Breakdown Voltage Vdc $V_{(BR)CBO}$ (l_c=100uAdc, l_E=0) Collector-Emitter Breakdown Voltage 45 Vdc $V_{(BR)CEO}$ $(I_c=0.1 \text{mAdc}, I_B=0)$ $V_{(BR)EBO}$ Emitter-Base Breakdown Voltage 5.0 Vdc $(I_{E}=100uAdc, I_{C}=0)$ 0.1 Collector Cutoff Current I_{CBO} --uAdc $(V_{CB}=50Vdc, I_{E}=0)$ Collector Cutoff Current 0.1 uAdc CEO $(V_{CE}=35Vdc, I_{B}=0)$ **Emitter Cutoff Current** 0.1 uAdc **I**EBO $(V_{EB}=3.0Vdc, I_{C}=0)$

ON CHARACTERISTICS

h _{FE}	DC Current Gain	60	1000	
	(b=1.0mAdc, Vce=5.0Vdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	0.3 V		Vdc
	(l _c =100mAdc, l _s =5.0mAdc)			
V _{BE(sat)}	Base-Emitter Saturation Voltage	Itage 1.0 Vdc		Vdc
,	(k=100mAdc, k=5.0mAdc)			

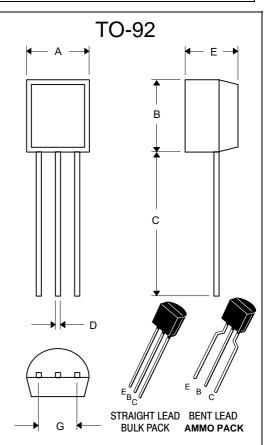
SMALL-SIGNAL CHARACTERISTICS

f _T	Transistor Frequency	150	 MHz
	(ξ =10mAdc, V_{CE} =5.0Vdc, f=30MHz)		

CLASSIFICATION OF HEE

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Rank	В	С	D
Range	100-300	200-600	400-1000

NPN Silicon Transistors



DIMENSIONS					
	INCHE	ΞS	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
С	.500		12.70		
О	.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.



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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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