

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	Wiin	wax	Units
OFF CHARACTERISTICS				
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	50		Vdc
V _{(BR)CEO}	(<u>k</u> =100µAdc, <u>k</u> =0) Collector-Emitter Breakdown Voltage (<u>k</u> =0.1mAdc, <u>k</u> =0)	45		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (_ξ =100μAdc, _{lc} =0)	5.0		Vdc
Сво	Collector Cutoff Current (V _{CB} =50Vdc, I _E =0)		0.1	μAdc
I _{CEO}	Collector Cutoff Current (V _{CE} =35Vdc, I _B =0)		0.1	μAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =3.0Vdc, I _C =0)		0.1	μAdc

ON CHARACTERISTICS

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

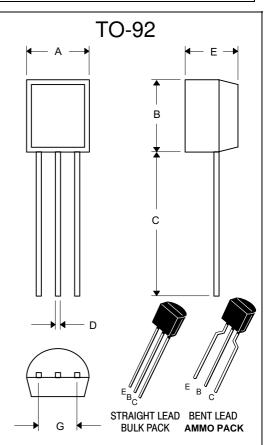
SMALL-SIGNAL CHARACTERISTICS

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

CLASSIFICATION OF HFE

0=1001110111011011011			
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		
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.



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Ordering Information:

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100 Kpcs/Carton

Note: Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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