

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)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	wax	Units	
OFF CHARAC	OFF CHARACTERISTICS				
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (L=100uAdc, L=0)	50		Vdc	
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (L=0.1mAdc, L=0)	45		Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (½=100uAdc, l _C =0)	5.0		Vdc	
Ісво	Collector Cutoff Current (V _{CB} =50Vdc, I _E =0)		0.1	uAdc	
ICEO	I _{CEO} Collector Cutoff Current (V _{CE} =35Vdc, I _B =0)		0.1	uAdc	
lebo	Emitter Cutoff Current (V _{EB} =3.0Vdc, I _C =0)		0.1	uAdc	

ON CHARACTERISTICS

h _{FE}	DC Current Gain	60	1000	
	(b=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)} Base-Emitter Saturation Voltage			1.0	Vdc
. ,	(k=100mAdc, k=5.0mAdc)			

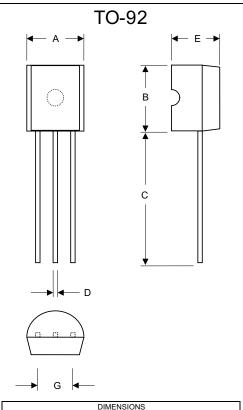
SMALL-SIGNAL CHARACTERISTICS

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

CLASSIFICATION OF HFE

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

NPN Silicon Transistors



ı	BIMENTOIONE					
I		INCHES		MM		
l	DIM	MIN	MAX	MIN	MAX	NOTE
I	Α	.170	.190	4.33	4.83	
ı	В	.170	.190	4.30	4.83	
ı	С	.550	.590	13.97	14.97	
ı	D	.010	.020	0.36	0.56	
I	Е	.130	.160	3.30	3.96	
١	G	.096	.104	2.44	2.64	
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Ordering Information

Device	Packing
(Part Number)-AP	Tape&Reel2Kpcs/Box
(Part Number)-BP	Bulk;1Kpcs/Bag

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