

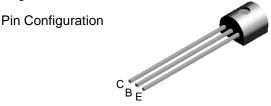
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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S9014

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 Code: S9014



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Max	Units		
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 (=100uAdc, l _c =0)	5.0		Vdc		
I _{CBO}	Collector Cutoff Current (V _{CB} =50Vdc, I _E =0)		0.1	uAdc		
I _{CEO}	Collector Cutoff Current $(V_{CE}=35Vdc, I_B=0)$		0.1	uAdc		
I _{EBO}	Emitter Cutoff Current $(V_{EB}=3.0Vdc, I_{C}=0)$		0.1	uAdc		
ON CHARACTERISTICS						
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h_{FE}	DC Current Gain	60	1000	
	($b=1.0$ mAdc, $V_{CE}=5.0$ Vdc)			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		0.3	Vdc
	(b=100mAdc, b=5.0mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.0	Vdc
	(├=100mAdc, ├=5.0mAdc)			

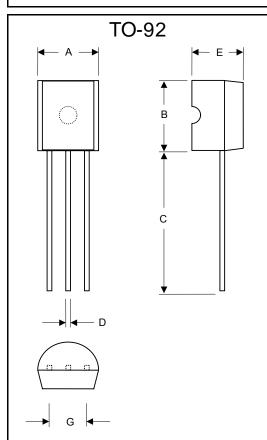
SMALL-SIGNAL CHARACTERISTICS

01111122 01011112 0111111110121101100						
f⊤	Transistor Frequency	150		MHz		
	(ξ =10mAdc, V_{CE} =5.0Vdc, f=30MHz)					

CLASSIFICATION OF HFE (1)

Rank	Α	В	C1	C2	C3	D
Range	60-150	120-200	200-300	300-400	400-500	500-1000

NPN Silicon Transistors



DIMENSIONS						
	INCHES		М	ММ		
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.175	.185	4.45	4.70		
В	.175	.185	4.46	4.70		
С	.500		12.7			
D	.016	.020	0.41	0.63		
Е	.135	.145	3.43	3.68		
G	.095	.105	2.42	2.67		
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