

**Micro Commercial Components** 



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### Features

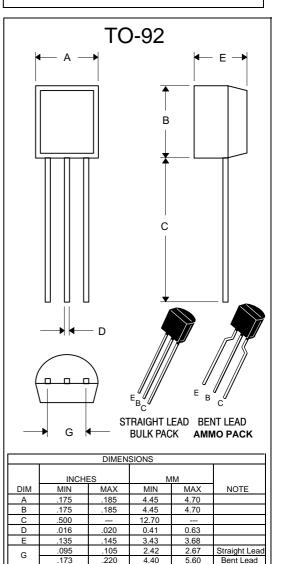
- TO-92 Plastic-Encapsulate Transistors
- Capable of 0.4Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.1A
- Collector-base Voltage 50V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking : S9014
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. 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	Max	Units
<b>OFF CHARA</b>	CTERISTICS			
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Volta	age 50		Vdc
()	(l <sub>c</sub> =100µAdc, l <sub>∈</sub> =0)			
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Vol	tage 45		Vdc
	(l <sub>c</sub> =0.1mAdc, l <sub>B</sub> =0)			
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	e 5.0		Vdc
	(l <sub>=</sub> =100µAdc, l <sub>c</sub> =0)			
I <sub>сво</sub>	Collector Cutoff Current		0.1	µAdc
	(V <sub>CB</sub> =50Vdc, I <sub>E</sub> =0)			
ICEO	Collector Cutoff Current		0.1	µAdc
	(V <sub>CE</sub> =35Vdc, I <sub>B</sub> =0)			
Ево	Emitter Cutoff Current		0.1	µAdc
	(V <sub>EB</sub> =3.0Vdc, I <sub>C</sub> =0)			
<b>ON CHARAC</b>	TERISTICS			
h <sub>FE</sub>	DC Current Gain	60	1000	
	(L=1.0mAdc, V <sub>CE</sub> =5.0Vdc)			
$V_{CE(sat)}$	Collector-Emitter Saturation Volta	ige	0.3	Vdc
	(L=100mAdc, L=5.0mAdc)			
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage		1.0	Vdc
	(l <sub>c</sub> =100mAdc, l₂=5.0mAdc)			
SMALL-SIG	NAL CHARACTERISTICS			
f <sub>T</sub>	Transistor Frequency	150		MHz
•	(L=10mAdc, V <sub>CE</sub> =5.0Vdc, f=30	)MHz)		
CLASSIFICA	TION OF HEE			
Rank	В	C D		D
Range	100-300	200-600 400-1000		1000

S9014-B S9014-C S9014-D

## NPN Silicon Transistors



\* 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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