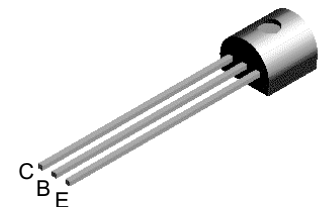


**S9014-B**  
**S9014-C**  
**S9014-D**

**Features**

- TO-92 Plastic-Encapsulate Transistors
- Capable of 0.4Watts( $T_{amb}=25^{\circ}C$ ) of Power Dissipation.
- Collector-current 0.1A
- Collector-base Voltage 50V
- Operating and storage junction temperature range:  $-55^{\circ}C$  to  $+150^{\circ}C$
- Marking : S9014
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1



**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Symbol	Parameter	Min	Max	Units
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**OFF CHARACTERISTICS**

$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=100\mu A, I_E=0$ )	50	---	Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=0.1mA, I_B=0$ )	45	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E=100\mu A, I_C=0$ )	5.0	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=50Vdc, I_E=0$ )	---	0.1	$\mu A$
$I_{CEO}$	Collector Cutoff Current ( $V_{CE}=35Vdc, I_B=0$ )	---	0.1	$\mu A$
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=3.0Vdc, I_C=0$ )	---	0.1	$\mu A$

**ON CHARACTERISTICS**

$h_{FE}$	DC Current Gain ( $I_C=1.0mA, V_{CE}=5.0Vdc$ )	60	1000	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=100mA, I_B=5.0mA$ )	---	0.3	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ( $I_C=100mA, I_B=5.0mA$ )	---	1.0	Vdc

**SMALL-SIGNAL CHARACTERISTICS**

$f_T$	Transistor Frequency ( $I_C=10mA, V_{CE}=5.0Vdc, f=30MHz$ )	150	---	MHz
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**CLASSIFICATION OF  $h_{FE}$**

Rank	B	C	D
Range	100-300	200-600	400-1000

