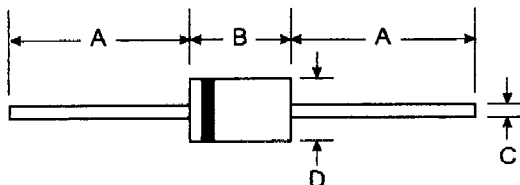


# 1N914 / 1N914A / 1N914B

## FAST SWITCHING DIODE

### Features

- Fast Switching Speed
- High Reliability
- High Conductance
- For General Purpose Switching Applications



### Mechanical Data

- Case: DO-35, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: Type Number
- Weight: 0.013 grams (approx.)

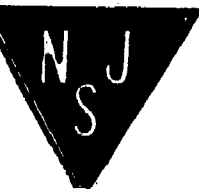
DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

### Maximum Ratings @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	75	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	53	V
Forward Continuous Current	I <sub>FM</sub>	1N914 300	mA
(Note 1)		1N914A/B	
Average Rectified Output Current	I <sub>O</sub>	1N914 75	mA
(Note 1)		1N914A/B 200	
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	@ t = 1.0s 1.0	A
		1N914 @ t = 1.0μs 1.0	
		1N914A/B @ t = 1.0μs 4.0	
Power Dissipation (Note 1)	P <sub>d</sub>	500	mW
Derate Above 25°C		1.68	
Thermal Resistance, Junction to Ambient Air (Note 1)	R <sub>θJA</sub>	300	K/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +175	°C

### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V <sub>FM</sub>	1N914B 0.62	0.72	V	I <sub>F</sub> = 5.0mA I <sub>F</sub> = 100mA I <sub>F</sub> = 10mA I <sub>F</sub> = 20mA
		1N914A/B —	1.0		
		1N914 —	1.0		
		1N914A —	1.0		
Maximum Peak Reverse Current	I <sub>RM</sub>	—	5.0 50 25	μA μA nA	V <sub>R</sub> = 75V V <sub>R</sub> = 20V, T <sub>J</sub> = 150°C V <sub>R</sub> = 20V
Capacitance	C <sub>J</sub>	—	4.0	pF	V <sub>R</sub> = 0, f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	—	4.0	ns	I <sub>F</sub> = 10mA to I <sub>R</sub> = 1.0mA V <sub>R</sub> = 6.0V, R <sub>L</sub> = 100Ω



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