

## 1N914/A/B

### FEATURES :

- High switching speed: max. 4 ns
- Continuous reverse voltage: max. 75 V
- Repetitive peak reverse voltage: max. 100 V
- Repetitive peak forward current: max. 225 mA
- Pb / RoHS Free

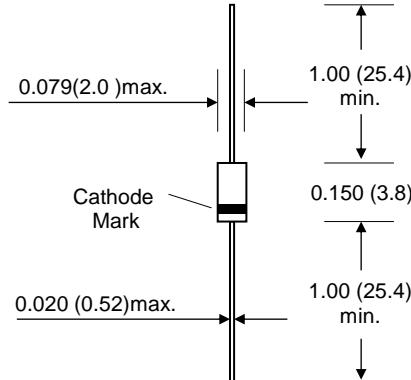
### MECHANICAL DATA :

Case: DO-35 Glass Case

Weight: approx. 0.13g

### HIGH SPEED SWITCHING DIODES

#### DO - 35 Glass (DO-204AH)



Dimensions in inches and ( millimeters )

### Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

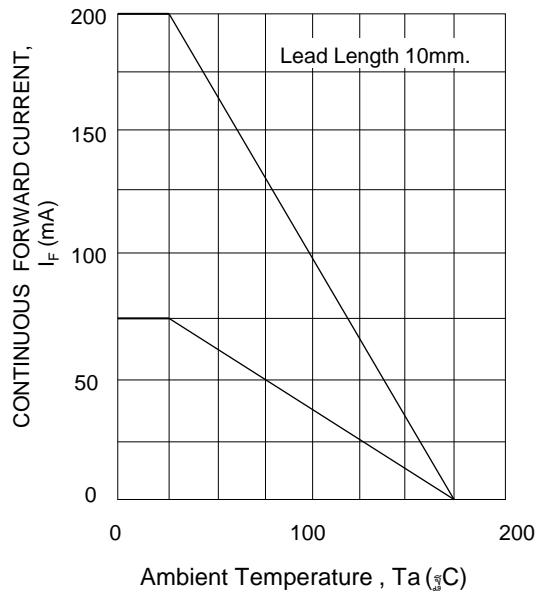
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Reverse Voltage	$V_R$	75	V
Average Rectified Forward Current	$I_{F(AV)}$	75	mA
1N914 A/B		200	
Forward Continuous Current	$I_{FM}$	150	mA
1N914 A/B		300	
Non-repetitive Peak Forward Surge Current	$I_{FSM}$	1	A
1N914		1	
1N914 A/B		4	
Power Dissipation	$P_{tot}$	500	mW
Operating and Storage Temperature Range	$T_J, T_{stg}$	-65 to + 175	°C

### Electrical Characteristics ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

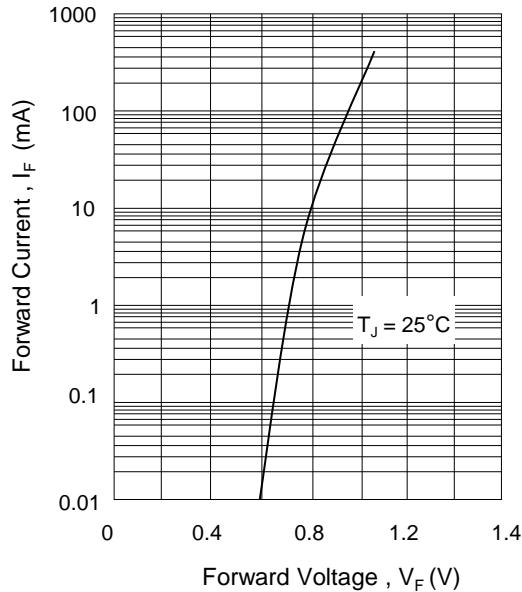
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	$I_R$	$V_R = 20 \text{ V}$	-	-	25	nA
		$V_R = 75 \text{ V}$	-	-	5	μA
		$V_R = 20 \text{ V} , T_J = 150^\circ\text{C}$	-	-	50	μA
Forward Voltage	$V_F$	$I_F = 10 \text{ mA}$	-	-	1.0	V
		$I_F = 20 \text{ mA}$	-	-	1.0	V
		$I_F = 5 \text{ mA}$	0.62	-	0.72	V
		$I_F = 100 \text{ mA}$	-	-	1.0	V
Diode Capacitance	$C_d$	$f = 1\text{MHz} ; V_R = 0$	-	-	4.0	pF
Reverse Recovery Time	$T_{rr}$	$I_F = 10 \text{ mA} \text{ to } I_R = 1 \text{ mA}$ $V_R = 1 \text{ mA}, R_L = 100 \Omega$	-	-	4	ns

## RATING AND CHARACTERISTIC CURVES ( 1N914/A/B )

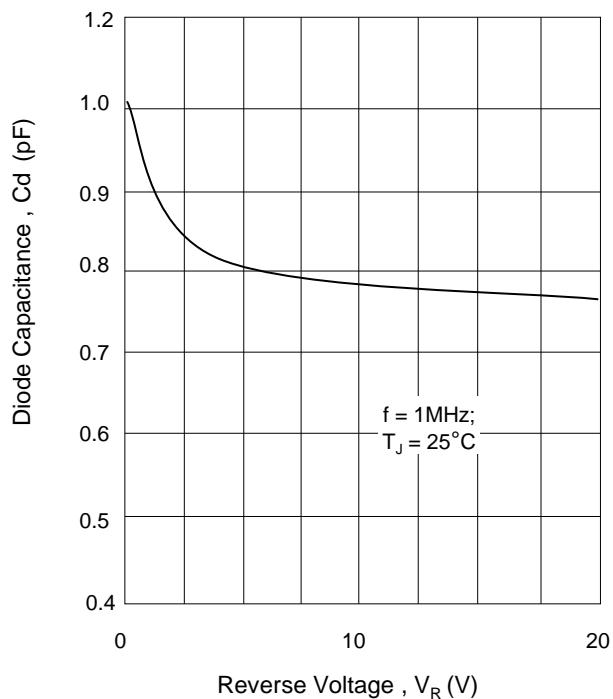
**FIG. 1 MAXIMUM PERMISSIBLE CONTINUOUS FORWARD CURRENT AS A FUNCTION OF AMBIENT TEMPERATURE.**



**FIG. 2 TYPICAL FORWARD VOLTAGE**



**FIG. 3 TYPICAL DIODE CAPACITANCE AS A FUNCTION OF REVERSE VOLTAGE**



**FIG. 4 TYPICAL REVERSE CURRENT VERSUS JUNCTION TEMPERATURE**

