

## LL914/A/B

### FEATURES :

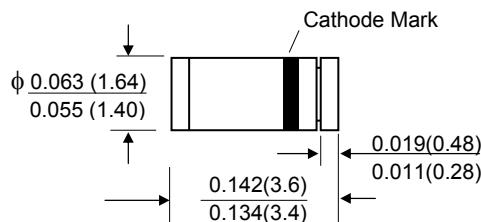
- \* High switching speed: max. 4 ns
- \* Continuous reverse voltage: max. 75 V
- \* Repetitive peak reverse voltage: max. 100 V
- \* Repetitive peak forward current: max. 225 mA
- \* Pb / RoHS Free

### MECHANICAL DATA :

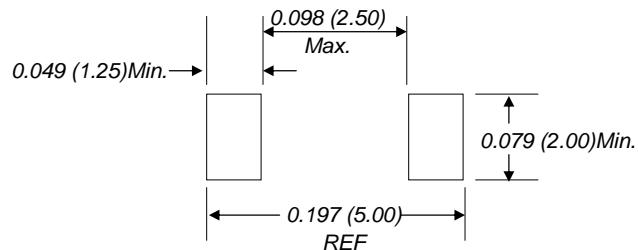
- \* **Case:** MiniMELF Glass Case (SOD-80)
- \* **Weight:** approx. 0.05g

### HIGH SPEED SWITCHING DIODES

#### MiniMELF (SOD-80C)



#### Mounting Pad Layout



Dimensions in inches and ( millimeters )

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

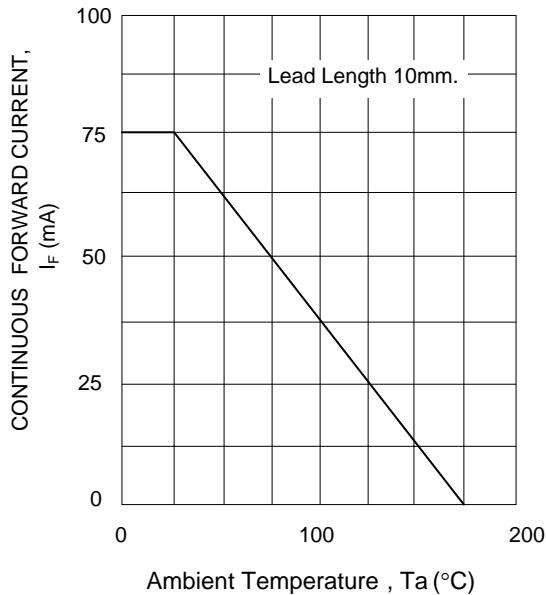
Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	V
Maximum Continuous Reverse Voltage	$V_{RM}$	75	V
Maximum Continuous Forward Current	$I_F$	75	mA
Maximum Power Dissipation	$P_D$	250	mW
Maximum Repetitive Peak Forward Current	$I_{FRM}$	225	mA
Maximum Non-repetitive Peak Forward Current at $t = 1s$	$I_{FSM}$	0.5	A
Maximum Junction Temperature	$T_J$	175	°C
Storage Temperature Range	$T_{STG}$	-65 to + 200	°C

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

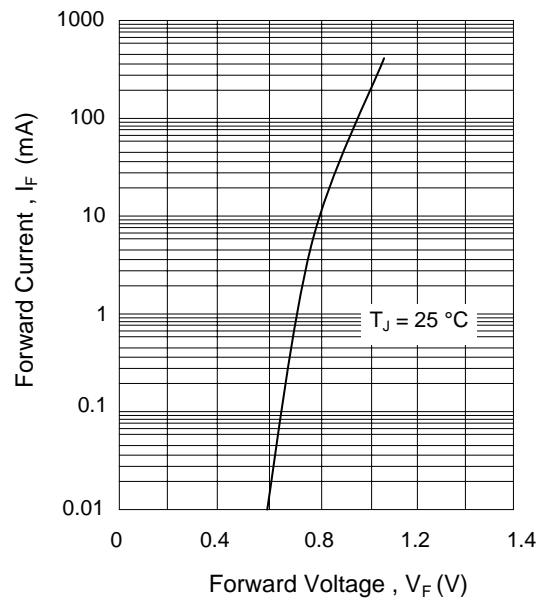
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	$I_R$	$V_R = 20 \text{ V}$ $V_R = 20 \text{ V} , T_J = 150 \text{ }^\circ\text{C}$	-	-	25	nA
Forward Voltage	$V_F$	$I_F = 10 \text{ mA}$	-	-	1.0	V
		$I_F = 20 \text{ mA}$	-	-	1.0	V
		$I_F = 5 \text{ mA}$	0.62	-	0.72	V
		$I_F = 100 \text{ mA}$	-	-	1.0	V
Diode Capacitance	$C_d$	$f = 1\text{MHz} ; V_R = 0$	-	-	4.0	pF
Reverse Recovery Time	$\text{Tr}_{rr}$	$I_F = 10 \text{ mA} \text{ to } I_R = 60 \text{ mA}$ $R_L = 100 \Omega ; \text{measured at } I_R = 1\text{mA}$	-	-	4	ns

## RATING AND CHARACTERISTIC CURVES ( LL914/A/B )

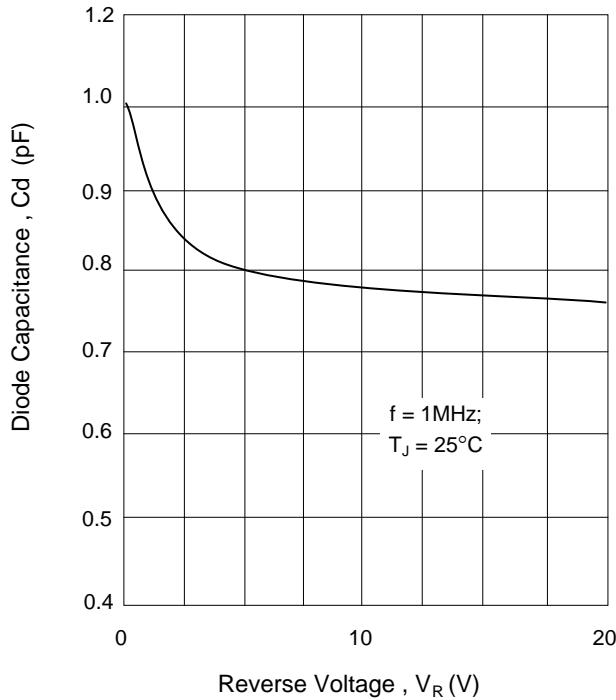
**FIG. 1 MAXIMUM PERMISSIBLE CONTINUOUS FORWARD CURRENT AS A FUNCTION OF AMBIENT TEMPERATURE.**



**FIG. 2 TYPICAL FORWARD VOLTAGE**



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



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

