

# HIGH SPEED SWITCHING DIODE

## SWITCHING DIODE

### Features:

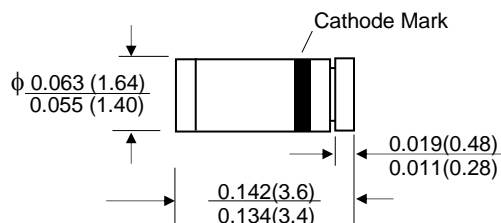
- High switching speed: max. 4ns
- Continuous reverse voltage: max. 50V
- For general purpose switching applications

### MECHANICAL DATA :

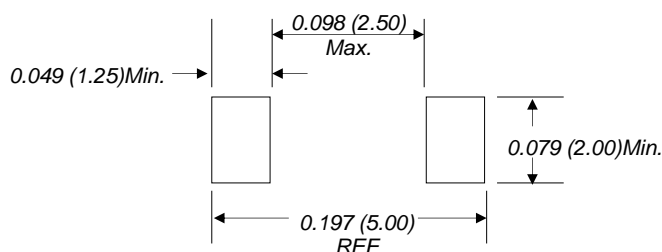
**Case:** MiniMELF Glass Case (SOD-80)

**Weight:** approx. 0.05g

### 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 Reverse Voltage	$V_R$	50	V
Forward Continuous Current	$I_{FM}$	300	mA
Maximum Average Forward Current	$I_{F(AV)}$	200	mA
Maximum Power Dissipation	$P_D$	500	mW
Maximum Junction Temperature	$T_J$	175	°C
Storage Temperature Range	$T_S$	-65 to + 175	°C

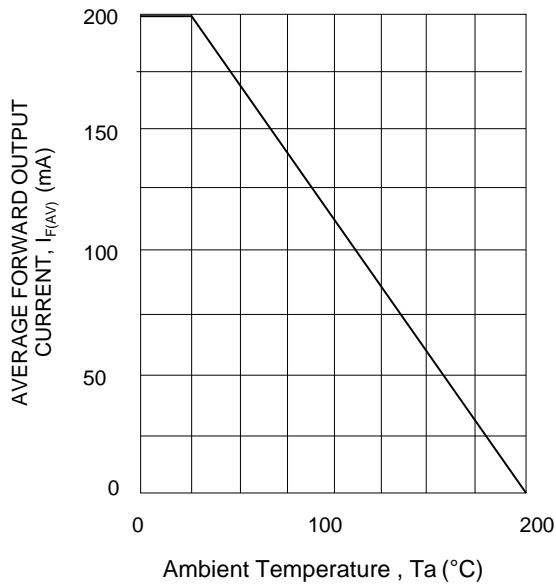
### Electrical Characteristics ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Current	$I_R$	$V_R = 50\text{ V}$	-	-	0.1	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F = 200\text{ mA}$	-	-	1.0	V
Reverse Recovery Time	$T_{rr}$	$I_F = 10\text{ mA to } 200\text{ mA}$ to $I_R = 10\text{ mA to } 200\text{ mA}$ ; $R_L = 100\ \Omega$ ; measured at $I_R = 0.1 \times I_F$	-	-	4	ns

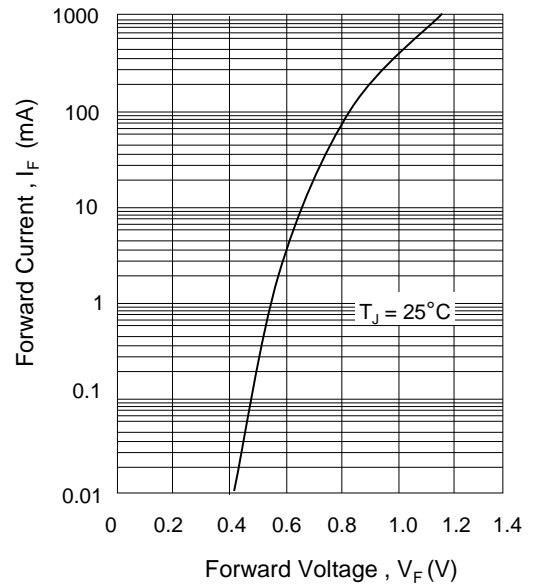
**Typical Characteristics**

**RATING AND CHARACTERISTIC CURVES ( LL4150 )**

**FIG. 1 MAXIMUM FORWARD CURRENT VERSUS AMBIENT TEMPERATURE**



**FIG. 2 TYPICAL FORWARD VOLTAGE**



**FIG. 3 TYPICAL REVERSE CURRENT VERSUS JUNCTION TEMPERATURE**

