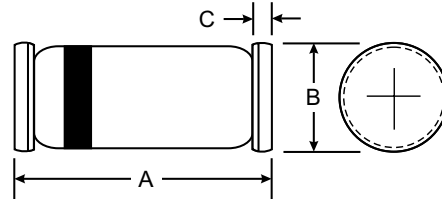


Features

- Switching speed: max. 50 ns
- General application
- Continuous reverse voltage:
max. 50 V, 100 V, 150 V and 200 V respectively
- Repetitive peak reverse voltage:
max. 60 V, 120 V, 200 V and 250 V respectively
- Repetitive peak forward current: max. 625 mA.
- **Pb / RoHS Free**



MiniMELF		
Dim	Min	Max
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50
All Dimensions in mm		

Mechanical Data

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

Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Unit			
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60 120 200 250	V			
Maximum Continuous Reverse Voltage	V_R	50 100 150 200	V			
Maximum Repetitive Peak Forward Current	I_{FRM}	625	mA			
Maximum Continuous Forward Current	I_F	250	mA			
Maximum Surge Forward Current	I_{FSM}	3.0 1.0	A			
		at $t = 100\mu\text{s}$, $T_J = 25^\circ\text{C}$ at $t = 1\text{s}$, $T_J = 25^\circ\text{C}$				
Maximum Power Dissipation	P_D	400	mW			
Maximum Junction Temperature	T_J	175	$^\circ\text{C}$			
Storage Temperature Range	T_S	-65 to + 175	$^\circ\text{C}$			
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Current	I_R	$V_R = 50\text{ V}$ $V_R = 100\text{ V}$ $V_R = 150\text{ V}$ $V_R = 200\text{ V}$	-	-	100 100 100 100	nA
Forward Voltage	V_F	$I_F = 100\text{ mA}$ $I_F = 200\text{ mA}$	-	-	1.0 1.25	V
Diode Capacitance	Cd	$f = 1\text{MHz}$; $V_R = 0$	-	-	5.0	pF
Reverse Recovery Time	T_{rr}	$I_F = 30\text{ mA}$ to $I_R = 30\text{ mA}$ $R_L = 100\ \Omega$; measured at $I_R = 3\text{ mA}$	-	-	50	ns



FIG. 1 MAXIMUM FORWARD CURRENT VERSUS AMBIENT TEMPERATURE

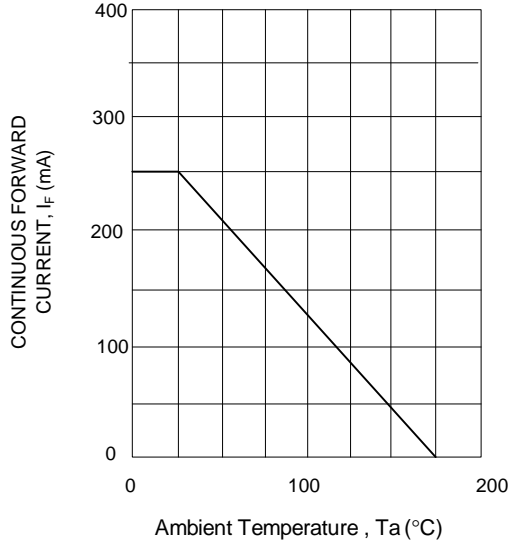


FIG. 2 TYPICAL FORWARD VOLTAGE

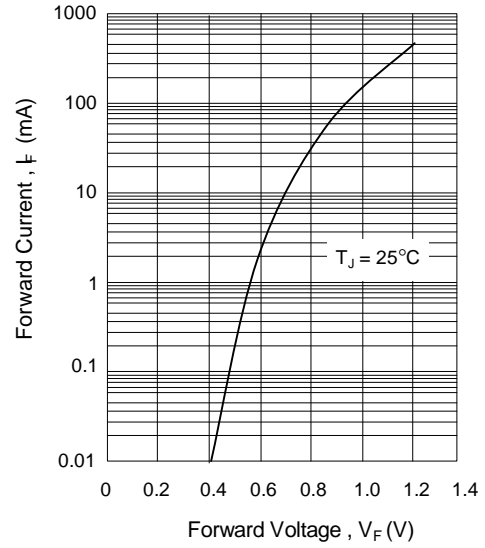


FIG. 3 TYPICAL DIODE CAPACITANCE AS A FUNCTION OF REVERSE VOLTAGE

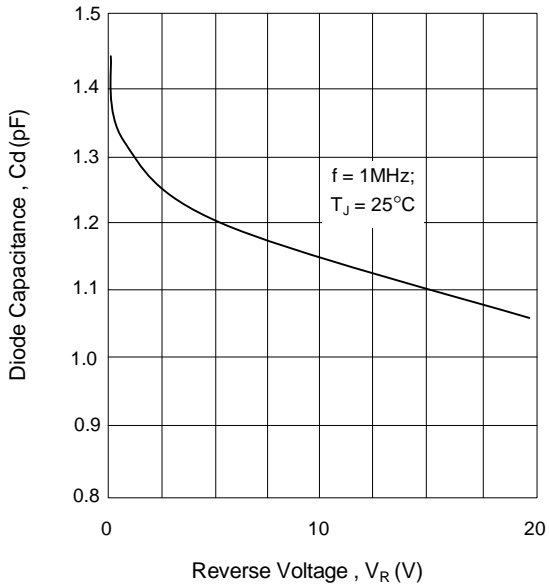


FIG. 4 TYPICAL REVERSE CURRENT VERSUS JUNCTION TEMPERATURE

