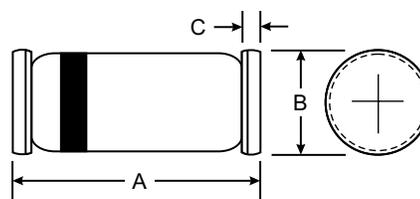


Features

- High switching speed: max. 4 ns
- Reverse voltage: max. 50 V
- Peak reverse voltage: max. 75 V
- Pb / RoHS Free

Mechanical Data

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



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

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit			
Maximum Peak Reverse Voltage	V _{RM}	75	V			
Maximum Reverse Voltage	V _R	50	V			
Maximum Continuous Current	I _F	200	V			
Maximum Average Forward Current	I _{F(AV)}	150	mA			
Half Wave Rectification with Resistive Load , f ≥ 50Hz ⁽¹⁾						
Maximum Surge Forward Current at t < 1s, T _j = 25°C	I _{FSM}	0.5	A			
Maximum Power Dissipation ⁽¹⁾	P _D	500	mW			
Thermal Resistance Junction to Ambient Air ⁽¹⁾	R _{θJA}	350	°C/W			
Maximum Junction Temperature	T _J	175	°C			
Storage Temperature Range	T _S	-65 to + 175	°C			
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I _R	V _R = 50 V	-	-	0.05	μA
		V _R = 50 V , T _j = 150 °C	-	-	50	μA
Forward Voltage	V _F	I _F = 50 mA	-	-	1.0	V
Diode Capacitance	C _d	f = 1MHz ; V _R = 0	-	-	2.5	pF
Reverse Recovery Time	T _{rr}	I _F = 10 mA to I _R = 10mA to I _R = 1mA, R _L = 100Ω	-	-	4	ns

Note: (1) Valid provided that electrodes are kept at ambient temperature



FIG. 1 MAXIMUM FORWARD CURRENT VERSUS AMBIENT TEMPERATURE

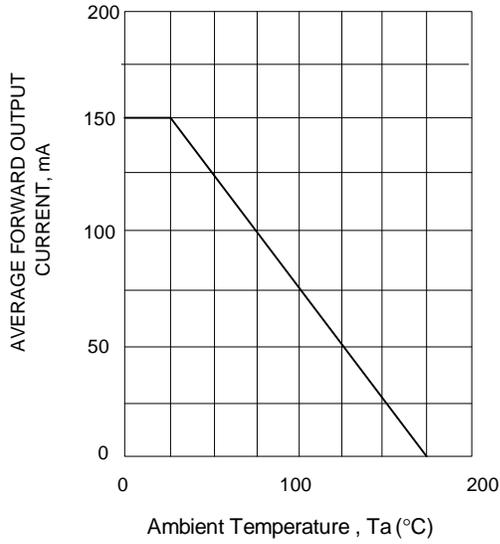


FIG. 2 TYPICAL FORWARD VOLTAGE

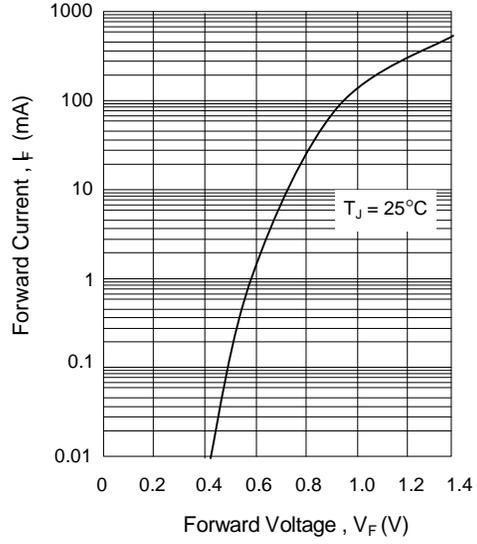


FIG. 3 TYPICAL DIODE CAPACITANCE AS A FUNCTION OF REVERSE VOLTAGE

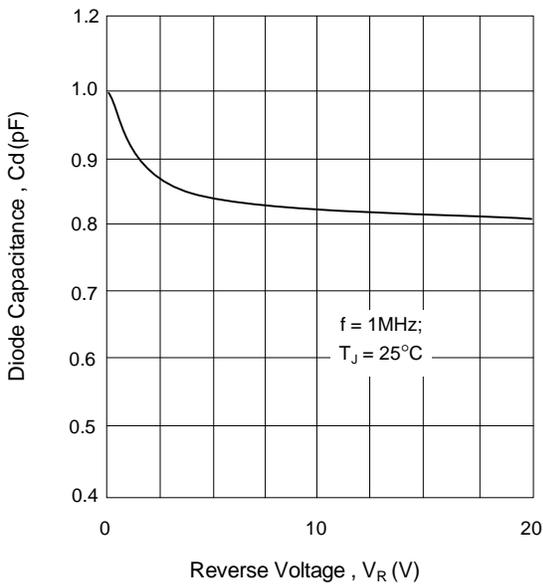


FIG. 4 TYPICAL REVERSE CURRENT VERSUS JUNCTION TEMPERATURE

