

Glass case MiniMELF  
Dimensions in mm

**Specification Features:**

- Fast Switching Device ( $T_{RR} < 4.0$  nS)
- LL-34 (Mini-MELF) Package
- Surface Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Terminals Are Readily Solderable
- RoHS Compliant
- Matte Tin (Sn) Terminal Finish
- Color band Indicates Negative Polarity

**Absolute Maximum Ratings**  $T_A = 25^\circ\text{C}$  unless otherwise noted

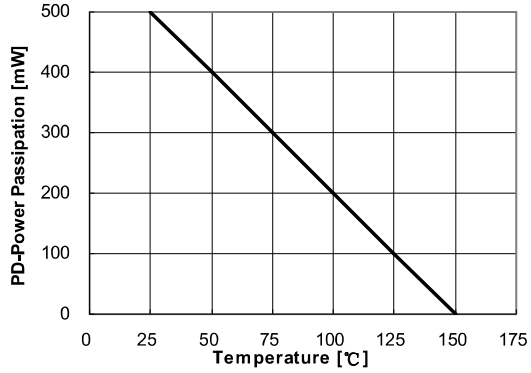
Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	500	mW
$T_{STG}$	Storage Temperature Range	-65 to +150	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+150	$^\circ\text{C}$
$W_V$	Working Inverse Voltage	75	V
$I_O$	Average Rectified Current	150	mA
$I_{FM}$	Non-repetitive Peak Forward Current	450	mA
$I_{FSURGE}$	Peak Forward Surge Current (Pulse Width = 1.0 $\mu\text{second}$ )	2	A

These ratings are limiting values above which the serviceability of the diode may be impaired.

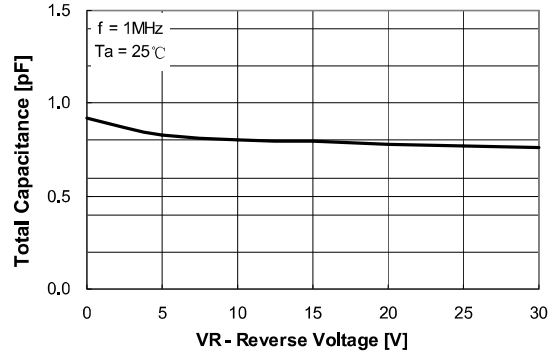
**Electrical Characteristics**  $T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
$B_V$	Breakdown Voltage	$I_R = 100 \mu\text{A}$	100		Volts
		$I_R = 5 \mu\text{A}$	75		
$I_R$	Reverse Leakage Current	$V_R = 20\text{V}$		25	nA
		$V_R = 75\text{V}$		5	$\mu\text{A}$
$V_F$	Forward Voltage	$I_F = 10\text{mA}$		1.0	Volts
$T_{RR}$	Reverse Recovery Time	$I_F = 10\text{mA}, V_R = 6\text{V}$			nS
		$R_L = 100\Omega$		4	
		$I_{RR} = 1\text{mA}$			
$C$	Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$		4	pF

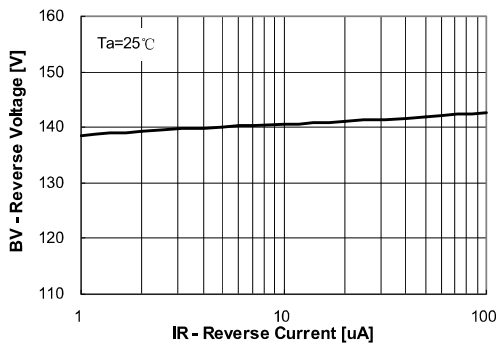
**Typical Characteristics**



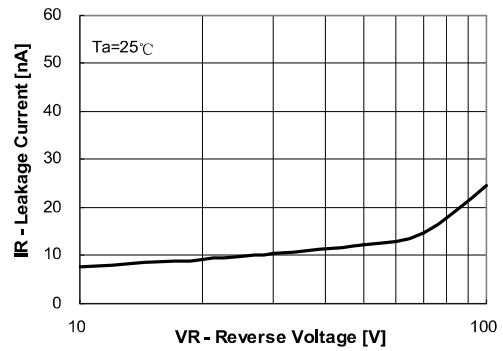
**Figure 1. Power Dissipation vs Ambient Temperature**  
Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature



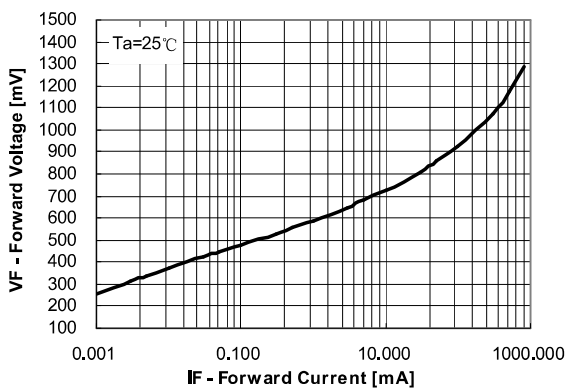
**Figure 2. Total Capacitance**



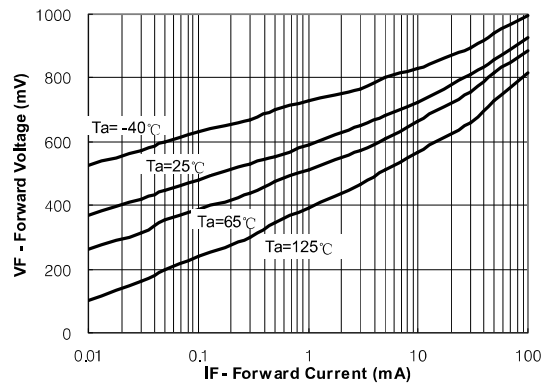
**Figure 3. Reverse Voltage vs Reverse Current**  
BV – 1.0uA to 100uA



**Figure 4. Reverse Current vs Reverse Voltage**  
IR – 10V to 100V



**Figure 5. Forward Voltage vs Forward Current**  
VF – 0.001mA to 800mA



**Figure 6. Forward Voltage vs Ambient Temperature**  
VF – 0.01mA to 100mA (-40 to +125 Deg C)