

**SURFACE MOUNT
FAST SWITCHING DIODE**

REVERSE VOLTAGE - 100 V
POWER DISSIPATION - 500 mW

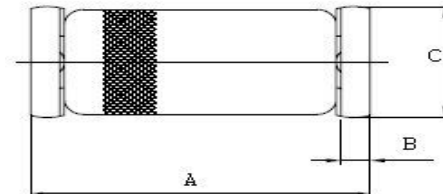
FEATURES

- Fast Switching Device ($T_{rr} < 4.0$ nS)
- Surface Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- Low leakage current
- RoHS Compliant

MECHANICAL DATA

- Case : LL-34 (Mini-MELF) Package
- Polarity : Color band denotes cathode
- Weight : Approx. 30mg

LL-34



LL-34		
Dim.	Min.	Max.
A	ϕ 3.3	ϕ 3.7
B	---	0.6
C	ϕ 1.4	ϕ 1.6
All Dimensions in millimeter		

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

Characteristic	Symbol	Value	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	100	V
RMS Reverse Voltage	V_{RMS}	75	V
Non-Repetitive Peak Forward Current	I_{FM}	450	mA
Average Rectified Output Current	I_{AV}	150	mA
Forward Surge Current at $T_p = 1.0$ s $T_p = 1.0$ us	I_{FSM}	500 2.0	mA A
Total Power Dissipation	P_d	500	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175	$^\circ\text{C}$

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

Parameters	Symbol	Test Condition	Min.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 1\mu\text{A}$	100		V
Forward Voltage	V_F	$I_F = 10\text{mA}$		1.0	V
Reverse Leakage Current	I_R	$V_R = 20\text{V}$		25	nA
		$V_R = 75\text{V}$		5.0	μA
		$V_R = 20\text{V}, T_J = 150^\circ\text{C}$		50	μA
Junction Capacitance	C_J	$V_R = 0\text{V}; F = 1\text{MHz}$		4	pF
Reverse Recovery Time	T_{rr}	$I_F = I_R = 10\text{mA}; R_L = 100\Omega$ measured at $I_R = 1\text{mA}$		4	ns

FIG.1 - TYPICAL FORWARD CHARACTERISTICS

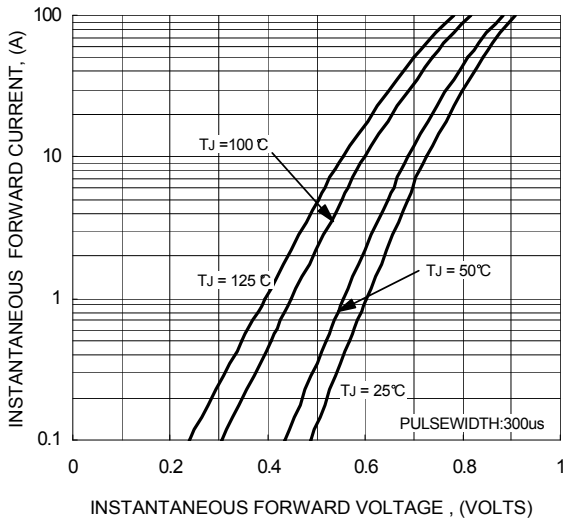


FIG.2 - TYPICAL JUNCTION CAPACITANCE

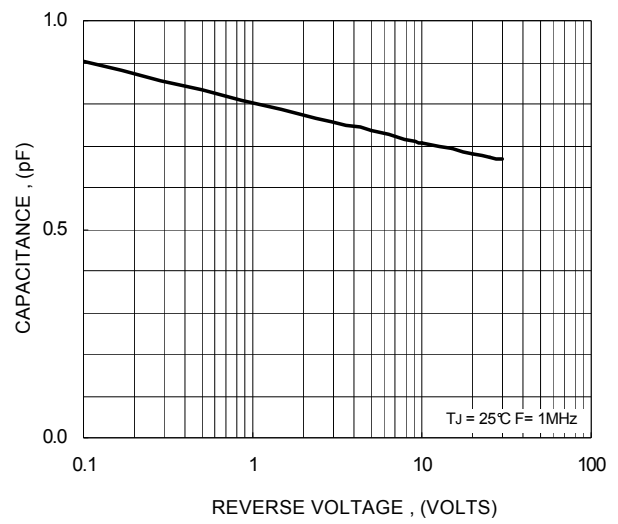


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

