



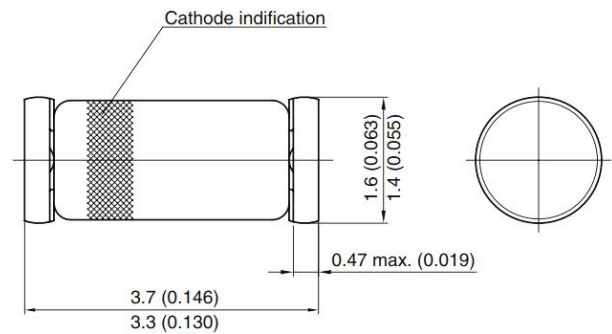
Features

- Fast Switching Device (TRR<4nS).
- Surface Device Type Mounting.
- Hermetically Sealed Glass.
- Compression Bonded Construction.
- Ideally suited for automated assembly processes.
- Available in lead free version.

Mechanical Data

- Case: LL-34 (MINI MELF) Package.
- Terminals:Plated Leads Solderable per MIL-STD-202, Method 208.
- Polarity:marked on body.
- Mounting Position : Any.

LL-34



Dimensions in millimeters and (inches)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load.For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Reverse voltage	V_R	75	V
Forward Continuous Current (Note 1)	I_{FM}	300	mA
Rectified Current (Average)	I_{AV}	150	mA
Power Dissipation(Note 1)	PD	500	mW
Non-Repetitive Peak Forward Surge Current @ t = 1.0s @ t = 1.0μs	IFSM	1.0 2.0	A
Forward Voltage @ $I_F = 10mA$	V_{FM}	1.0	V
Maximum Peak Reverse Current $V_R = 75V$ $V_R = 70V, T_j = 150^\circ C$ $V_R = 20V, T_j = 150^\circ C$ $V_R = 20V$	IRM	5.0 50 30 25	uA uA uA nA
Diode Capacitance $V_R = 0, f = 1.0MHz$	C_j	4.0	pF
Reverse Recovery Time $I_F = 10mA$ to $I_R = 1.0mA, V_R = 6.0V, R_L = 100 \Omega$	T_{rr}	4.0	nS
Typical Thermal Resistance(Note 1)	$R_{\theta JA}$	26.85	°C/W
Operating Temperature Range,	T_j	175	°C
Storage Temperature Range	T_{STG}	-55 — +175	°C

Notes:1.Device mounted on ceramic PCB 10mm x 8mm x 0.7mm.



Typical Characteristics $T_a = 25^\circ\text{C}$ unless otherwise specified

Fig.1- Power Derating Curve

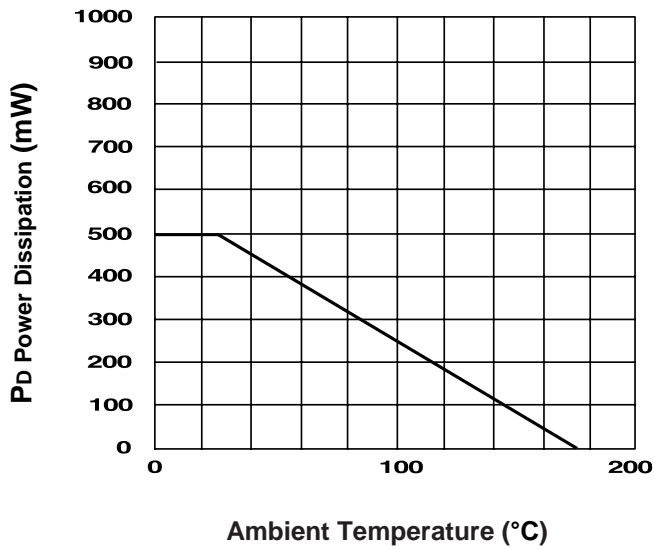


Fig.2- Typical Forward Characteristics

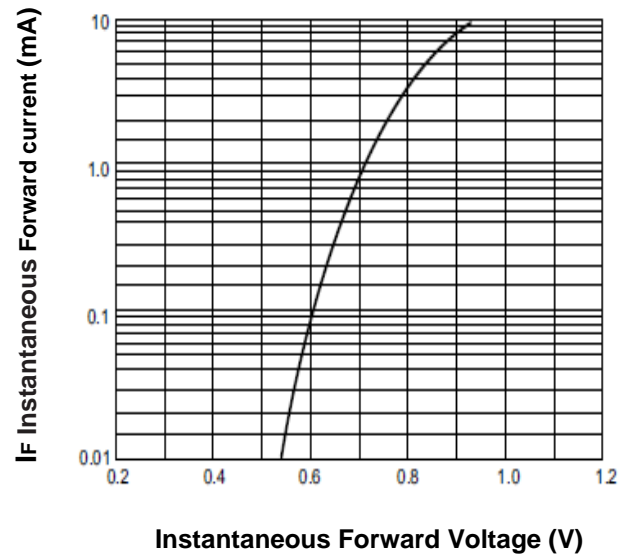


Fig.3- Typical junction capacitance

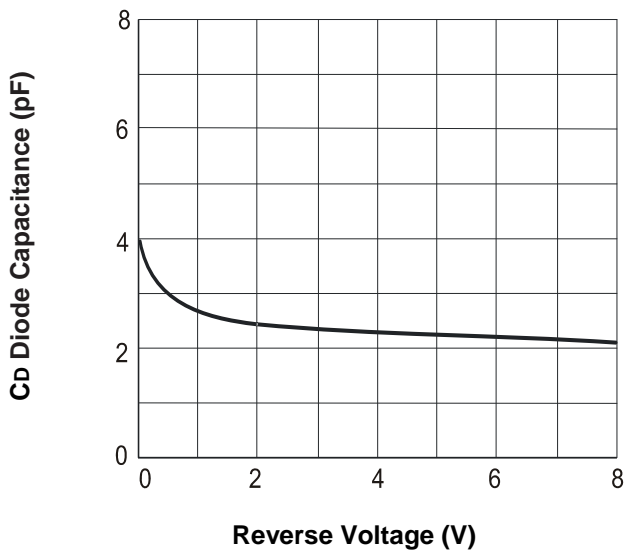
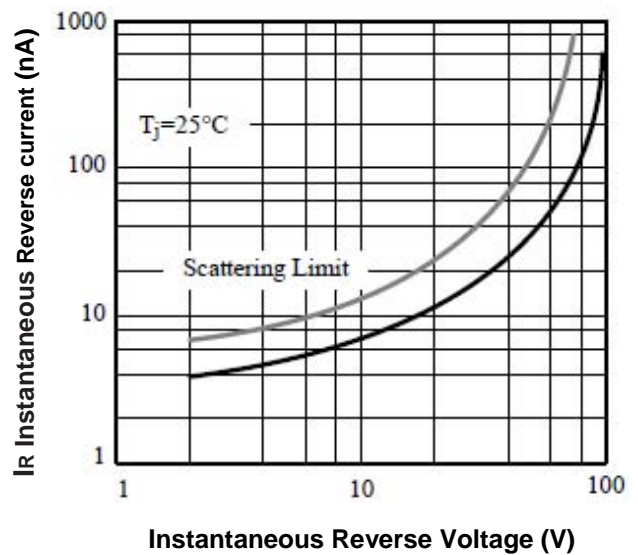


Fig.4- Typical Reverse Characteristics





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