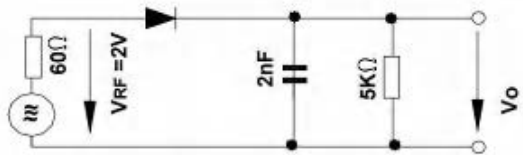




Features

Fast switching diode in MiniMELF case especially suited for automatic surface mounting.



Rectification Efficiency Measurement Circuit



Maxmim Ratings (Ta=25 unless otherwise noted)

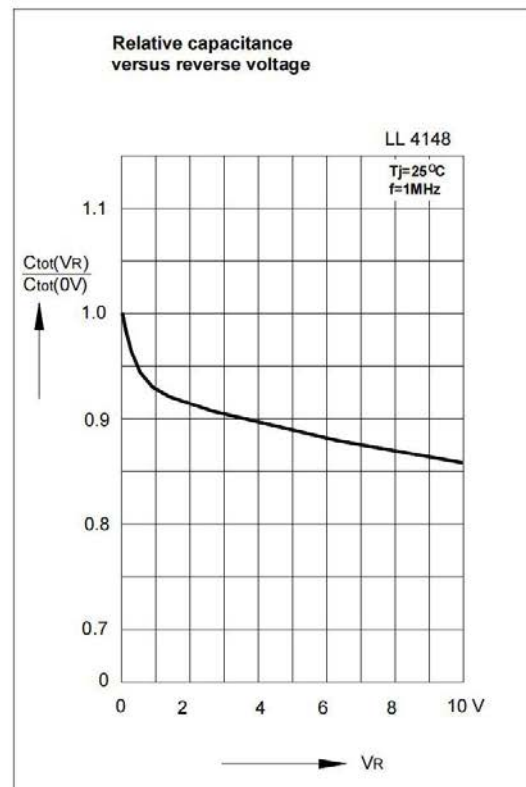
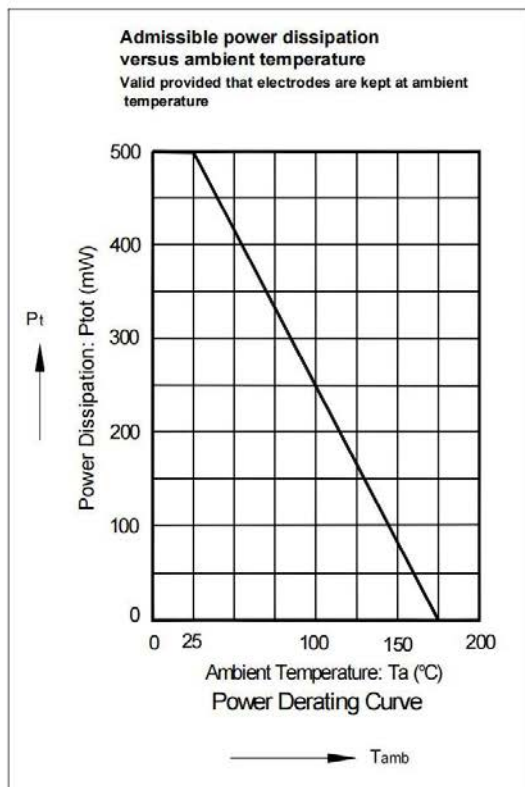
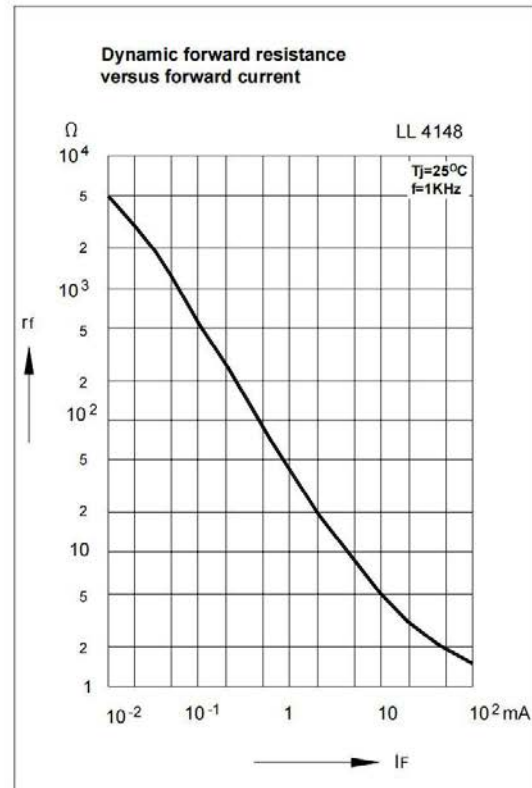
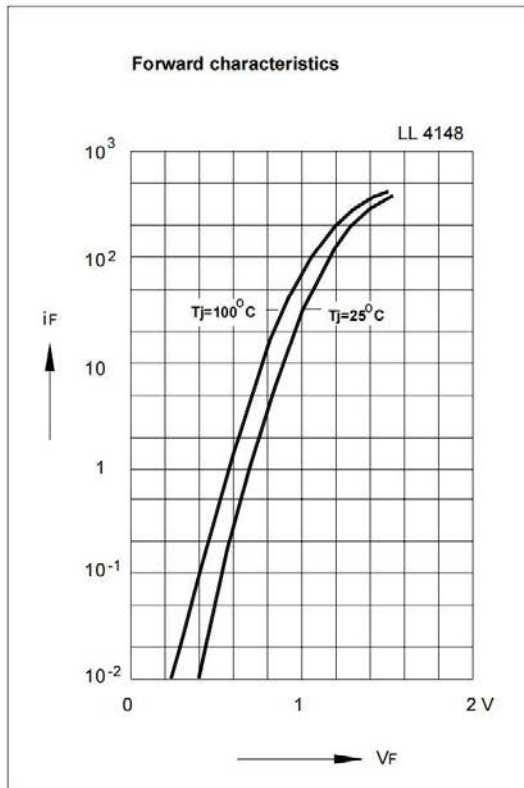
| Parameter | Symbol | Value | Unit |
|-------------------------------------------|-------------|---------------|------|
| Peak Reverse Voltage | V_{RM} | 100 | V |
| Reverse Voltage | V_R | 75 | V |
| Average Rectified Forward Current | $I_{F(AV)}$ | 200 | mA |
| Non-repetitive Peak Forward Surge Current | I_{FSM} | 0.5 | A |
| at $t = 1$ s | | 1 | |
| at $t = 1$ ms | | 4 | |
| at $t = 1$ μ s | | | |
| Power Dissipation | P_{tot} | 500 | mW |
| Junction Temperature | T_j | 175 | °C |
| Storage Temperature Range | T_{stg} | - 65 to + 175 | °C |

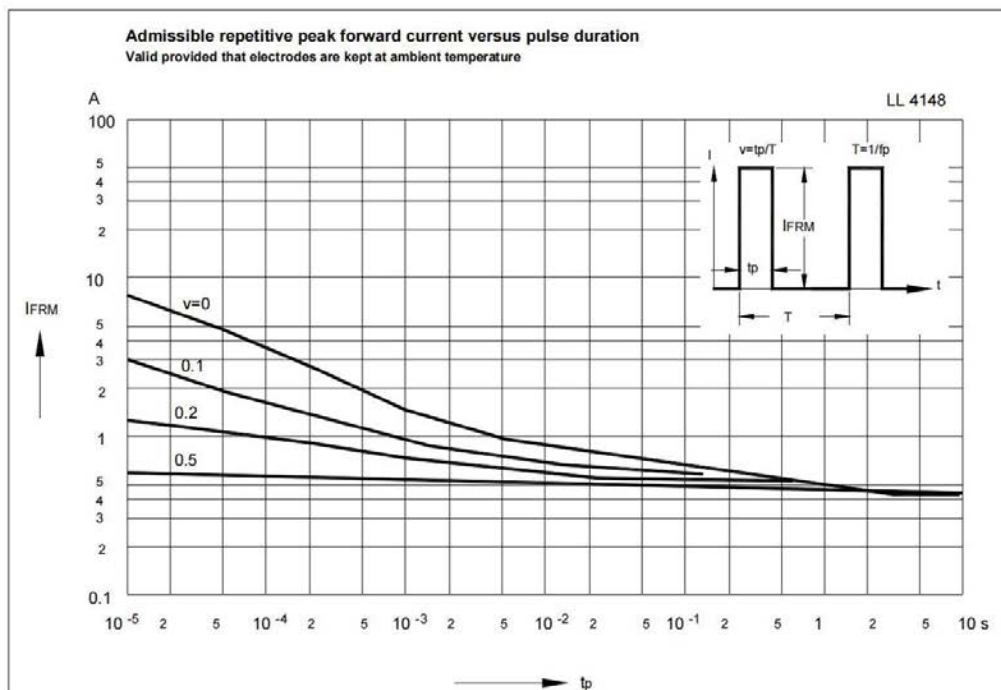
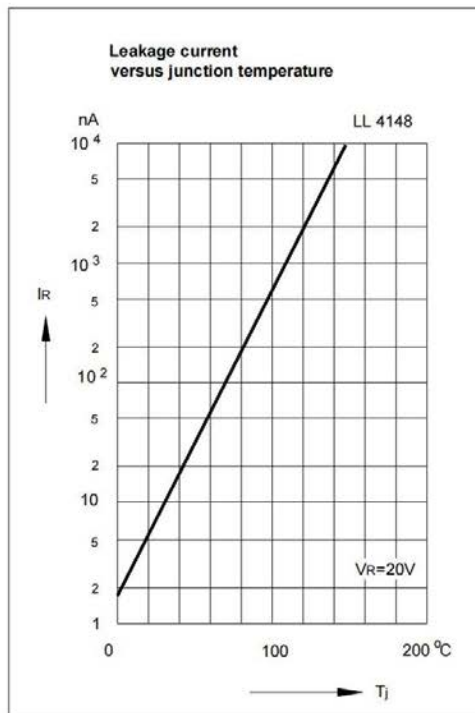
Charcteristics (Ta=25)

| Parameter | Symbol | Min. | Max. | Unit |
|------------------------------------------------------------------------------------------------------------------------------|-------------|------|------|---------|
| Reverse Breakdown Voltage tested with 100 μ A Pulses | $V_{(BR)R}$ | 100 | - | V |
| Forward Voltage at $I_F = 10$ mA | V_F | - | 1 | V |
| Leakage Current at $V_R = 20$ V | I_R | - | 25 | nA |
| at $V_R = 75$ V | | - | 5 | μ A |
| at $V_R = 20$ V, $T_j = 150^\circ\text{C}$ | | - | 50 | μ A |
| Capacitance at $V_R = 0$ V, $f = 1$ MHz | C_{tot} | - | 4 | pF |
| Voltage Rise when Switching on tested with 50 mA Forward Pulses $t_p = 0.1$ s, Rise Time < 30 ns, $f_p = 5$ to 100 KHz | V_{fr} | - | 2.5 | V |
| Reverse Recovery Time at $I_F = 10$ mA, $I_{rr} = 0.1 \times I_R$, $V_R = 6$ V, $R_L = 100 \Omega$ | t_{rr} | - | 4 | ns |



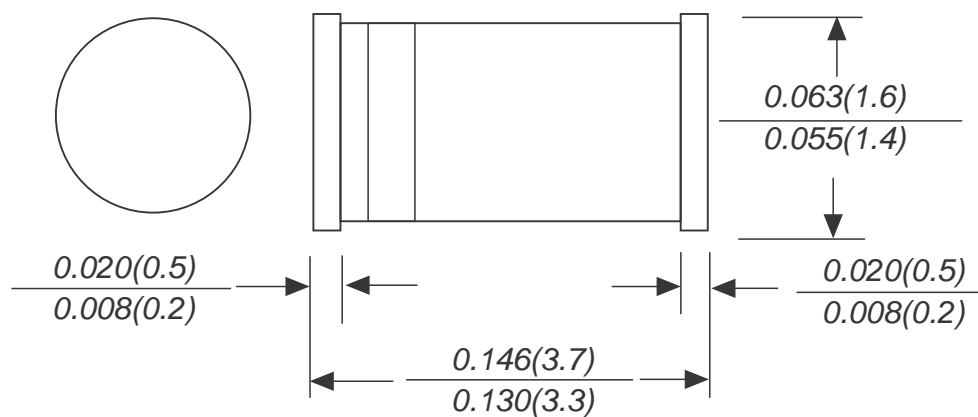
Typical Characteristics







LL-34 Package Information



Dimensions in inches and (millimeters)



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