

**SURFACE MOUNT LL-34
SWITCHING DIODE**

FEATURES

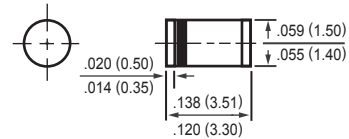
- * Fast Switching Device($T_{RR}<4.0\text{nS}$)
- * LL-34 Glass Case
- * Through-Hole Device Type Mounting
- * Hermetically Sealed Glass
- * Compression Bonded Construction
- * All external surfaces are corrosion resistant and leads are readily solderable

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



LL-34



Dimensions in inches and (millimeters)

Absolute Maximum Ratings ($T_a=25\text{ }^{\circ}\text{C}$)

| | Symbol | Value | UNIT |
|--|-----------|-------------|--------------------|
| Reverse Voltage | V_R | 75 | V |
| Reverse Recovery Time $I_F=-I_R=10\text{mA}$ to $I_{RR}=-1\text{mA}$ $V_R=6\text{V}$ $R_L=100\text{ ohms}$ | t_{rr} | 4 | ns |
| Power Dissipation at $T_{amb}=25^{\circ}\text{C}$ $3.33\text{mW}/^{\circ}\text{C}$ | P_{tot} | 500 | mW |
| Forward Current | I_F | 300 | mA |
| Junction Temperature | T_j | 175 | $^{\circ}\text{C}$ |
| Storage Temperature Range | T_S | -65 to +175 | $^{\circ}\text{C}$ |

Electrical Characteristics (Ta=25 °C)

| | Symbol | Min | Max | Unit |
|--|---------------------|-------------|--------------------|-------|
| Minimum Breakdown Voltage @I _R = 100uA | BV | 100 | - | V |
| Rectifier Current (Average) Half Wave Rectification w/Resist Load at Ta= 25 °C and f > or = 50Hz | I _O | - | 150 | mA |
| Peak Forward Surge Current PW<1 sec | I _{Fsurge} | - | 500 | mA |
| Maximum Forward Voltage IF = 10 mA | V _F | - | 1.0 | V |
| Maximum reverse Leakage Current at V _R = 20V at V _R = 75V at V _R = 20V, T _J = 150°C | I _R | - - - | 0.025 5.0 50 | uA |
| Maximum Junction Capacitance V _F =V _R = 0, f= 1MHz | C _j | - | 4 | pF |
| Reverse Recovery Time From I _F = -I _R =10mA to I _{RR} =-1mA V _R =6V R _L =100 ohms | trr | - | 4 | ns |
| Maximum Thermal Resistance Junction to Ambient Air | R _{thJA} | - | 0.35 | °C/mW |
| Rectification Efficiency at f=100MHZ, V _{rf} = 2V | nv | 0.45 | - | - |

Note : "Fully ROHS compliant", "100% Sn plating (Pb-free)".

VB 2007-2

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