

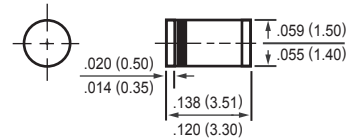
**SURFACE MOUNT LL-34  
SWITCHING DIODE**

**FEATURES**

- \* Fast Switching Device( $T_{RR}<4.0nS$ )
- \* 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



LL-34



Dimensions in inches and (millimeters)

**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%.

**Absolute Maximum Ratings (Ta=25 °C)**

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

## Electrical Characteristics (Ta=25 °C)

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

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

VB 2007-2

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