

**SURFACE MOUNT LL-34
SWITCHING DIODE**

FEATURES

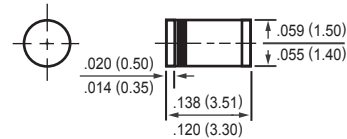
- * Fast Switching Device($T_{RR}<4.0\text{nS}$)
- * LL-34 Glass Case
- * Through-Hole Device Type Mounting
- * Hermetically Sealed Glass
- * Compression Bonded Construction
- * All external surfaces are corrosion resistant and leads are readily solderable

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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