

**SURFACE MOUNT LL-34
SWITCHING DIODE**

FEATURES

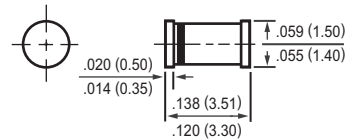
- * Fast Switching Device($T_{RR}<4.0\text{nS}$)
- * LL-34 Glass Case
- * Through-Hole Device Type Mounting
- * Hermetically Sealed Glass
- * Compression Bonded Construction
- * All external surfaces are corrosion resistant and leads are readily solderable

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



Absolute Maximum Ratings (Ta=25 °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 Tamb= 25°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 _R = 100uA	BV	100	-	V
Rectifier Current (Average) Half Wave Rectification w/Resist Load at Ta= 25 °C and f > or = 50Hz	I _O	-	500	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	-	-

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
LL-34	-T	2,500	-----	----	----	178	390*205*310	100,000	8.40

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