

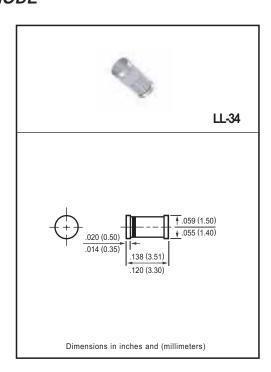
# SURFACE MOUNT LL-34 SWITCHING DIODE

#### **FEATURES**

- \* Fast Switching Device(T<sub>RR</sub><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

#### 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 <sub>R</sub>	75	V
Reverse Recovery Time $I_F$ =- $I_R$ =10mA to $I_R$ =-1mA $I_R$ =100 ohms	trr	4	ns
Power Dissipatipn at Tamb= 25°C 3.33mW/°C	P <sub>tot</sub>	500	mW
Forward Current	I <sub>F</sub>	300	mA
Junction Temperature	T <sub>j</sub>	175	°C
Storage Temperature Range	T <sub>S</sub>	-65 to +175	°C

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# 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	Io	-	500	mA	
at Ta= 25 °C and f > or = 50Hz					
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		-	0.025		
at V <sub>R</sub> = 75V	I <sub>R</sub>	-	5.0	uA	
at V <sub>R</sub> = 20V, Tj = 150°C		-	50		
Maximum Junction Capacitance	C <sub>i</sub>	_	4	pF	
$V_F = V_R = 0$ , $f = 1$ MHz	٥١		-	pr	
Reverse Recovery Time From					
$I_F = -I_R = 10$ mA to $I_{RR} = -1$ mA	trr	-	4	ns	
V <sub>R</sub> =6V R <sub>L</sub> =100 ohms					
Maximum Thermal Resistance	В		0.05		
Junction to Ambient Air	R <sub>thJA</sub>	-	0.35	°C/mW	
Rectification Efficiency	nv	0.45	_	_	
at f=100MHZ, V <sub>rf</sub> = 2V	1111	0.40			

# 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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