

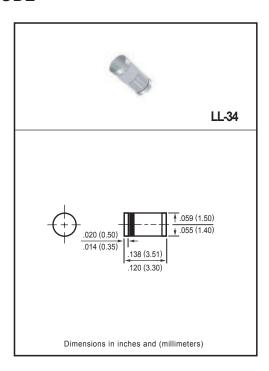
# SURFACE MOUNT LL-34 (SOD-8OC) SWITCHING DIODE

### **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 $I_{RR}$ =-1mA	trr	4	ns	
V <sub>R</sub> =6V R <sub>L</sub> =100 ohms				
Power Dissipatipn at Tamb= 25°C	P <sub>tot</sub>	500	mW	
3.33mW/°C	' tot	300	11144	
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	

## 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	I <sub>O</sub>	-	150	mA
at Ta= 25 °C and f > or = 50Hz				
Peak Forward Surge Current PW<1 sec	l <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	I <sub>R</sub>	-	0.025 5.0	uA
at V <sub>R</sub> = 20V, Tj = 150°C		-	50	۵,۲
Maximum Junction Capacitance V <sub>F</sub> = V <sub>R</sub> = 0, f= 1MHz	Cj	-	4	pF
Reverse Recovery Time From				
I <sub>F</sub> = -I <sub>R</sub> =10mA to I <sub>RR</sub> =-1mA	trr	-	4	ns
V <sub>R</sub> =6V R <sub>L</sub> =100 ohms				
Maximum Thermal Resistance Junction to Ambient Air	R <sub>thJA</sub>	-	0.35	°C/mW
Rectification Efficiency at f=100MHZ, V <sub>rf</sub> = 2V	nv	0.45	-	-

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

VB 2007-2



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