RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

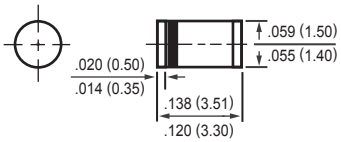
MM4148

SURFACE MOUNT LL-34 (SOD-8OC) 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	trr	4	ns
Power Dissipatipn 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	-	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, Tj = 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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