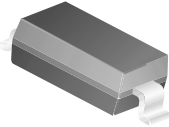


# MMSD4148



**SOD123**  
Color Band Denotes Cathode  
Top Marking:  
5H

## Small Signal Diode

### Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	100	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	200	mA
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0 2.0	A A
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	°C
T <sub>J</sub>	Operating Junction Temperature	150	°C

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

### Thermal Characteristics

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	400	mW
R <sub>θJA</sub>	Thermal Resistance, Junction to Ambient	312	°C/W

### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
V <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 5.0 μA I <sub>R</sub> = 100 μA	75 100		V V
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 10 mA		1.0	V
I <sub>R</sub>	Reverse Current	V <sub>R</sub> = 20 V V <sub>R</sub> = 20 V, T <sub>A</sub> = 150°C V <sub>R</sub> = 75 V		25 50 5.0	nA μA μA
C <sub>T</sub>	Total Capacitance	V <sub>R</sub> = 0, f = 1.0 MHz		4.0	pF
t <sub>rr</sub>	Reverse Recovery Time	I <sub>F</sub> = 10mA, V <sub>R</sub> = 6.0 V I <sub>RR</sub> = 1.0 mA, R <sub>L</sub> = 100 Ω		4.0	ns

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