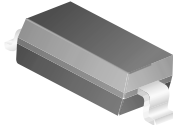


MMSD4148



SOD123
Color Band Denotes Cathode
Top Marking:
5H

Small Signal Diode

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	100	V
I _{F(AV)}	Average Rectified Forward Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0	A
		2.0	A
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _J	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 _D	Power Dissipation	400	mW
R _{θJA}	Thermal Resistance, Junction to Ambient	312	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
V _R	Breakdown Voltage	I _R = 5.0 μA	75		V
		I _R = 100 μA	100		V
V _F	Forward Voltage	I _F = 10 mA		1.0	V
I _R	Reverse Current	V _R = 20 V		25	nA
		V _R = 20 V, T _A = 150°C		50	μA
		V _R = 75 V		5.0	μA
C _T	Total Capacitance	V _R = 0, f = 1.0 MHz		4.0	pF
t _{rr}	Reverse Recovery Time	I _F = 10mA, V _R = 6.0 V I _{RR} = 1.0 mA, R _L = 100 Ω		4.0	ns

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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