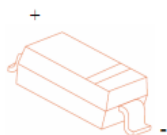


FEATURES



Fast Switching Speed
Surface Mount Package Ideally Suited for Automatic Insertion
For General Purpose Switching Applications
High Conductance

MECHANICAL DATA

- * Case: Molded plastic
- * Lead: Axial leads, solderable per MIL-STD-750, method 2026
- * Polarity: Polarity symbols marked on case
- * Marking: T4

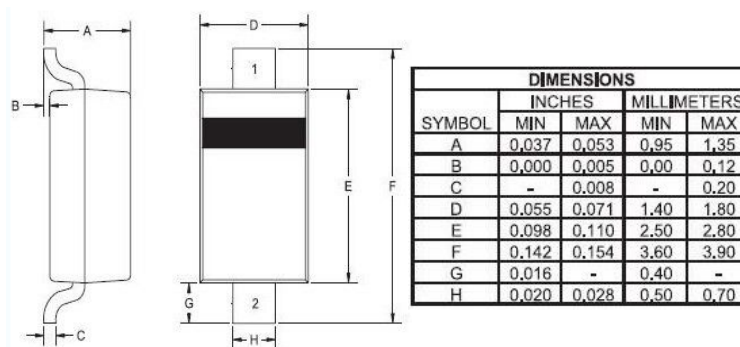
VOLTAGE RANGE

100Volts

CURRENT

0.15 Ampere

SOD123



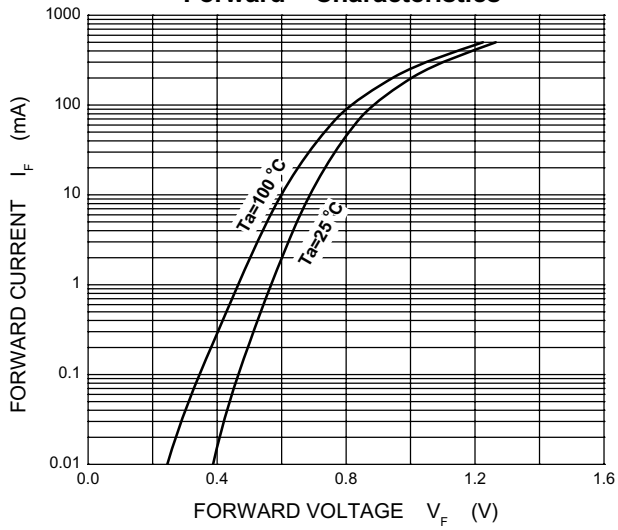
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

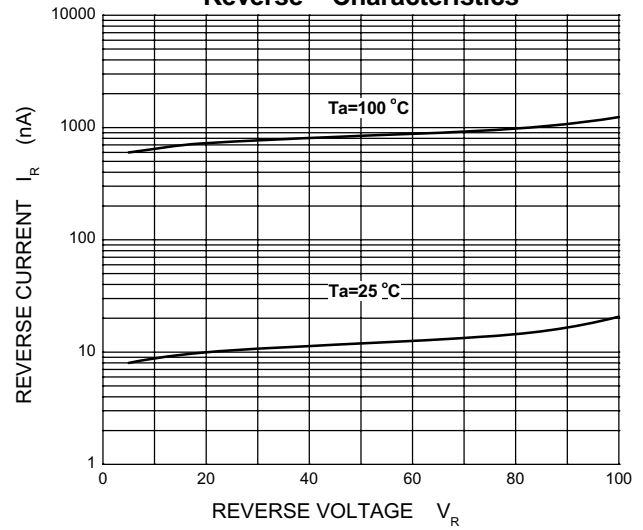
TYPE NUMBER	MMSD4148	UNITS
Maximum Recurrent Peak Reverse Voltage	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	V
Maximum Average Forward Rectified Current See Fig. 1	0.15	A
Peak Forward Surge Current @ t=1.0 μs	4.0	A
@ t=1.0s	1.0	A
Leakage current @ V _R =20V	25.0	nA
@ V _R =75V	5.0	μA
@ V _R =20V T _J =150°C	50.0	μA
Maximum Instantaneous Forward Voltage at 0.01	0.85	V
at 0.05A	1.0	
at 0.15A	1.25	
Maximum DC Reverse Current at Rated DC Blocking Voltage Ta=25°C	1	μA
Typical Junction Capacitance (VR=0V f=1MHz)	1.15	pF
Total Power Dissipation	410	mW
Maximum Reverse Recovery Time (TRR typical)	4	ns
Operating Temperature Range T _J	-55 to +150	°C
Storage Temperature Range T _{STG}	-55 to +150	°C

RATING AND CHARACTERISTIC CURVES (MMSD4148)

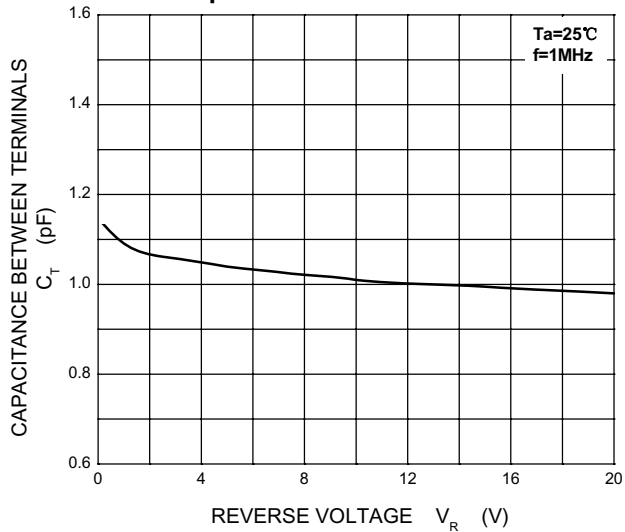
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

