



MMSD4148

High Speed Switching Diode

Features

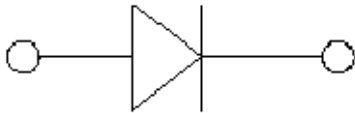
- V_R 100V
- I_{FAV} 200mA

Typical Applications

- Extreme fast switches

Mechanical Data

- **Package:** SOD-123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** 5l



■Maximum Ratings ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		100
Peak forward surge current	I_{FSM}	A	$t_p=1\mu s$	2
Average forward current	I_{FAV}	mA		200
Power dissipation	P_{tot}	mW		400
Thermal Resistance	R_{thJA}	/W		312
Maximum junction temperature	T_j			150
Storage temperature range	T_{stg}			-55 to +150

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V_F	V	$I_F=10mA$	1
Maximum Reverse current	I_R	nA	$V_R=20V$	25
	I_R	μA	$V_R=75V$	5
Minimum Breakdown voltage	V_R	V	$I_R=5\mu A$	75
		V	$I_R=100\mu A$	100
Maximum Diode capacitance	$C_{D,D}$			

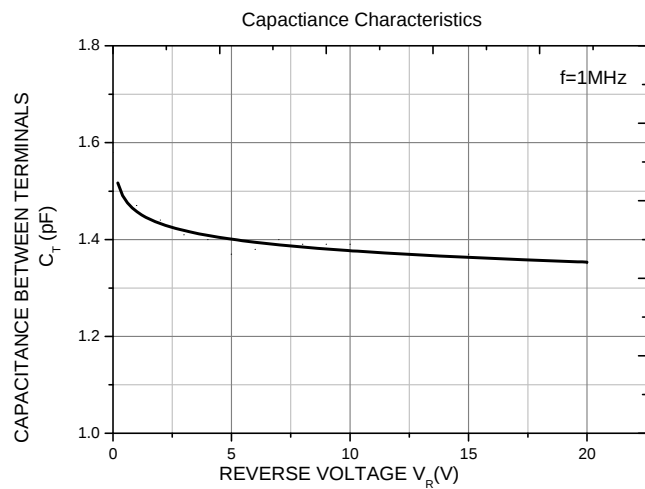
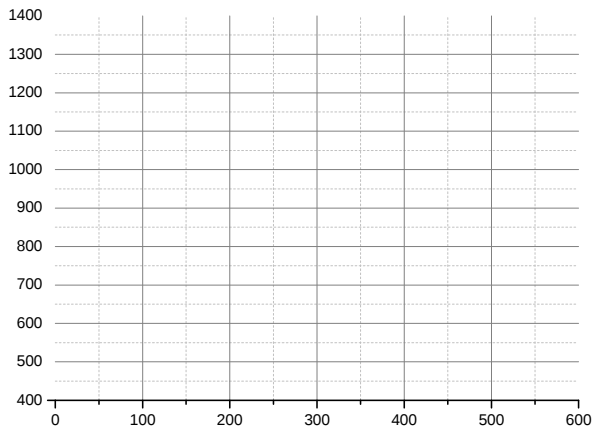


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■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMSD4148	F2	Approximate 0.011	3000	30000	120000	7" reel

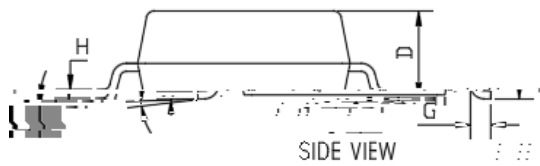
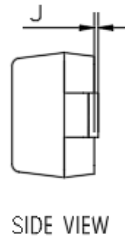
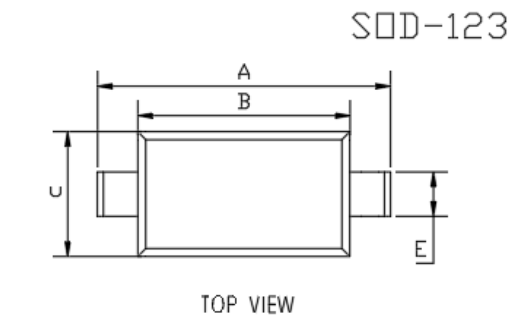
■ Characteristics (Typical)





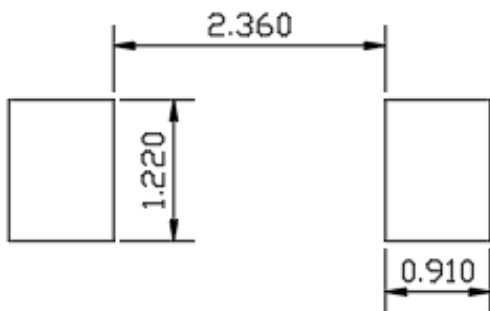
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■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.140	0.152	3.550	3.850
B	0.100	0.112	2.550	2.850
C	0.055	0.071	1.400	1.800
D	0.037	0.053	0.950	1.350
E	0.018	0.030	0.450	0.760
F	0.010	0.080	0.250	2.000
G	0.006	0.000	0.150	0.000
H	8°	0	8°	0

■ Soldering Footprint



SUGGESTED SOLDER PAD LAYOUT



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