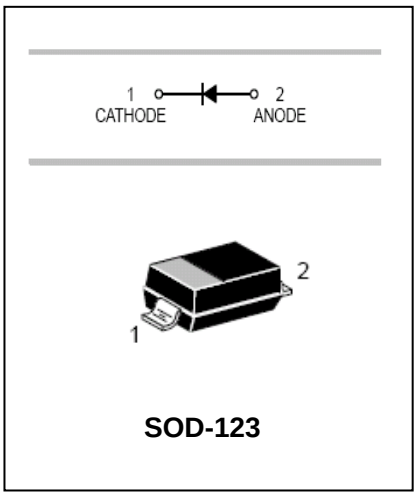
Fast Speed switching Diode **MMSD4148**

FEATURES

- SOD-123 surface mount package.
- High breakdown voltage.
- Fast speed switching time.

Lead-free



SOD-123

APPLICATIONS

- Surface mount fast switching diode

ORDERING INFORMATION

Type No.	Marking	Package Code
MMSD4148	5I	SOD-123

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Characteristic	**Symbol**	**Value**	**Unit**
Continuous reverse Voltage	V_R	100	V
Forward Continuous Current	I_F	200	mA
Peak Forward Surge Current @t<1s @t=1μs	I_{FSM}	1.0 2.0	A
Power Dissipation	P_d	425	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	290	℃/W
Operating and Storage Temperature Rage	T_j,T_{STG}	-55 to+150	℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Characteristic	**Symbol**	**Min**	**Max**	**Unit**	**Test Condition**
Reverse Breakdown Voltage	$V_{(BR)R}$	100	-	V	I_R=100μA
Forward Voltage	V_F	-	1.0	V	I_F=10mA
Reverse Current	I_R	-	25 5.0	μA nA	V_R=20V V_R=75V
Diode Capacitance	C_D	-	4.0	pF	V_R=0,f=1.0MHz
Reverse Recovery Time	t_{rr}	-	4.0	ns	I_F=I_R=10mA

Fast Speed switching Diode **MMSD4148**

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

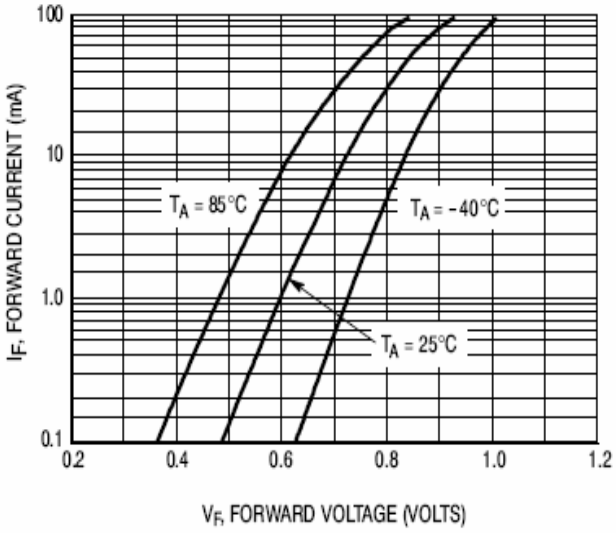


Figure 1. Forward Voltage

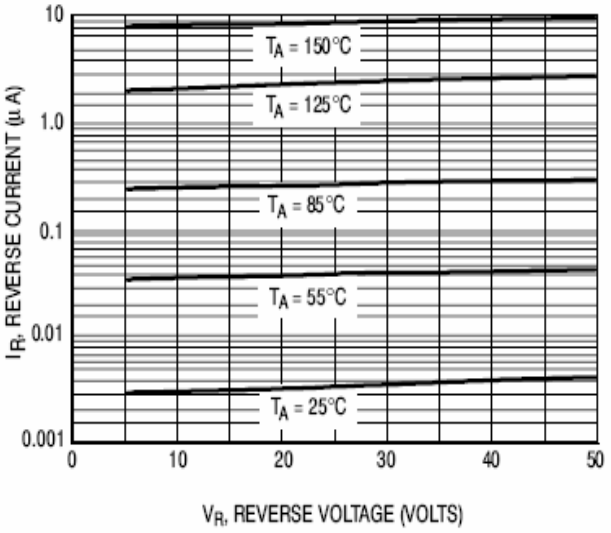


Figure 2. Leakage Current

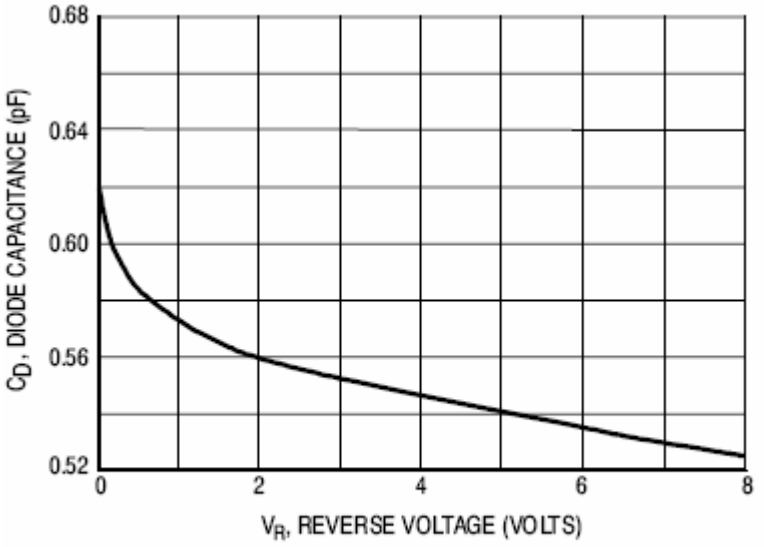
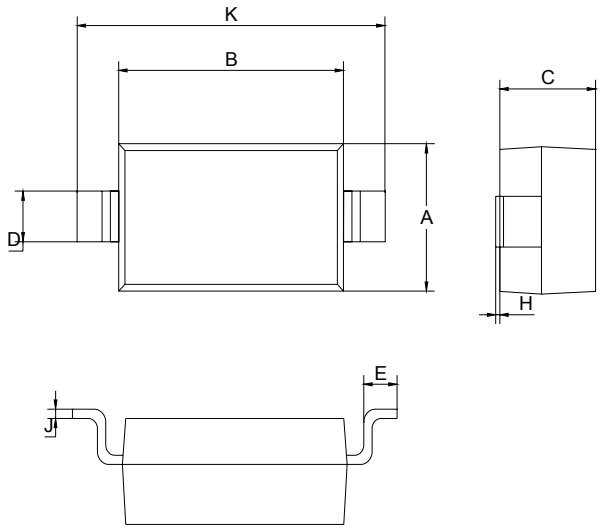


Figure 3. Capacitance

Fast Speed switching Diode **MMSD4148**

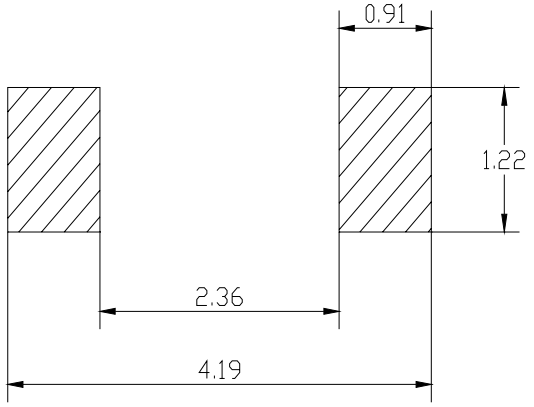
PACKAGE OUTLINE

Plastic surface mounted package SOD-123



SOD-123		
Dim	Min	Max
A	1.4	1.8
B	2.55	2.85
C	1.15 Typical	
D	0.5	0.6
E	0.3	0.4
H	0.02	0.10
J	0.1 Typical	
K	3.55	3.85
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit：mm

PACKAGE INFORMATION

Device	Package	Shipping
MMSD4148	SOD-123	3000/Tape&Reel