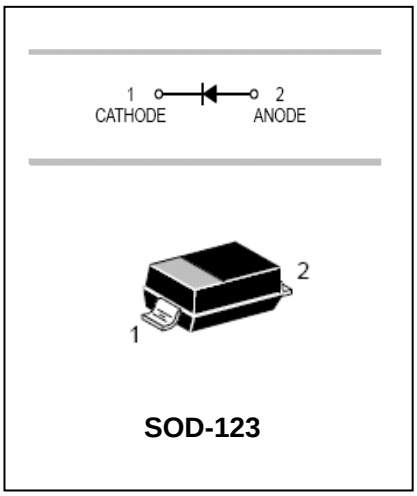
High Voltage switching Diode **MMSD103**

FEATURES

- Surface Mount Package Ideally Suited For Automatic Insertion
- For General Purpose Switching Applications

Lead-free



SOD-123

APPLICATIONS

- Surface mount fast switching diode

ORDERING INFORMATION

Type No.	Marking	Package Code
MMSD103	JS	SOD-123

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Characteristic	**Symbol**	**Value**	**Unit**
Continuous reverse Voltage	V_R	250	V
Forward Continuous Current	I_F	200	mA
Peak Forward Surge Current	I_{FSM}	625	mA
Power Dissipation	P_d	400	mW
Thermal Resistance, Junction to case Thermal Resistance, Junction to Ambient	$R_{\theta JL}$ $R_{\theta JA}$	174 492	℃/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	$V_{(BR)R}$	250	-	V	I_R=100μA
Forward Voltage	V_F	-	1.0 1.25	V	I_F=100mA I_F=200mA
Reverse Current	I_R	-	1 25	μA nA	V_R=200V V_R=200V,T_J=150℃
Diode Capacitance	C_D	-	5.0	pF	V_R=0,f=1.0MHz
Reverse Recovery Time	t_{rr}	-	50	ns	I_F=I_R=30mA,R_L=100Ω

High Voltage switching Diode **MMSD103**

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

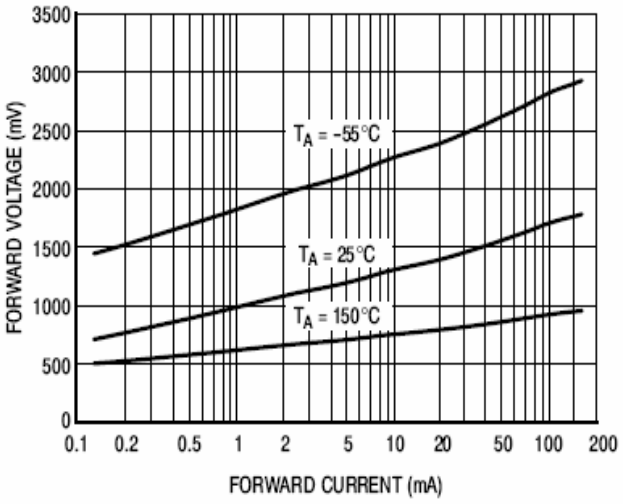


Figure 1. Forward Voltage

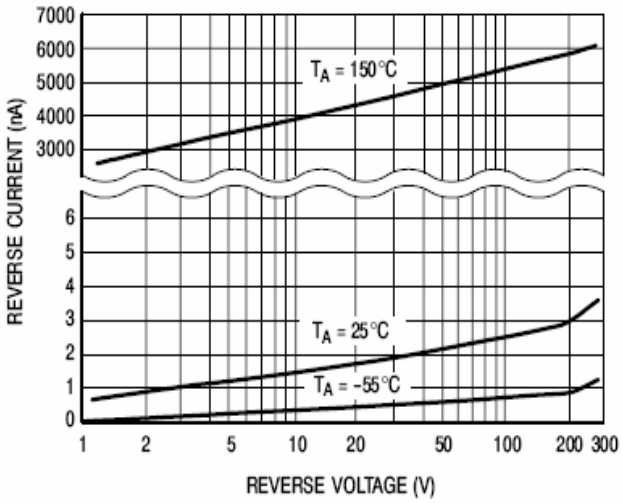
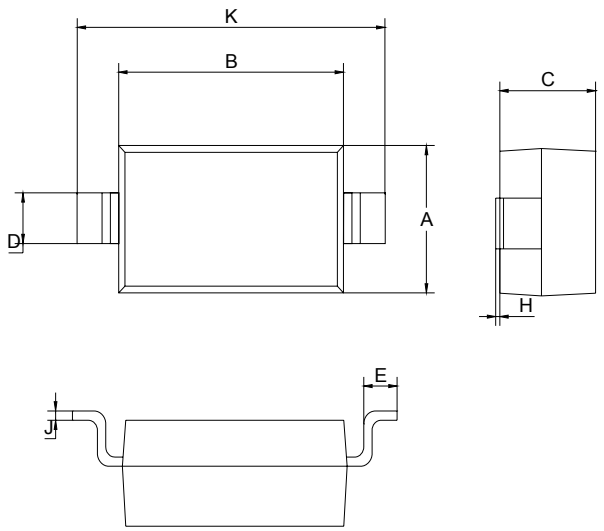


Figure 2. Reverse Leakage

PACKAGE OUTLINE

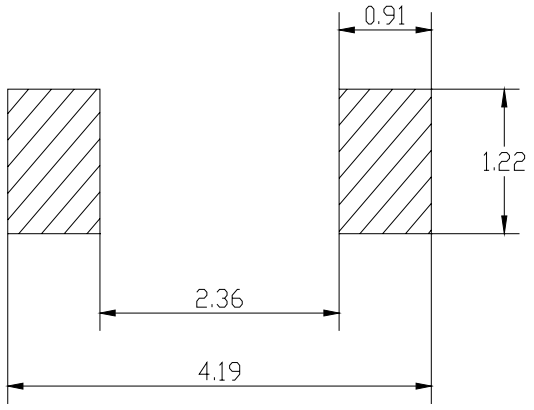
Plastic surface mounted package SOD-123



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		

High Voltage switching Diode **MMSD103**

SOLDERING FOOTPRINT



Unit：mm

PACKAGE INFORMATION

Device	Package	Shipping
MMSD103	SOD-123	3000/Tape&Reel