

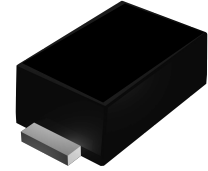
# GSMMSD103 High Voltage Switching Diode

## Features

- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications



Schematic Diagram



SOD-123

## Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise noted)

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	$R_{\theta JL}$	174	$^\circ\text{C}/\text{W}$
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	492	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	$^\circ\text{C}$

## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	250	--	V	$I_R=100\mu\text{A}$
Forward Voltage	$V_F$	-	1.0 1.25	V	$I_F=100\text{mA}$ $I_F=200\text{mA}$
Reverse Current	$I_R$	-	1 100	$\mu\text{A}$ $\mu\text{A}$	$V_R=200\text{V}$ $V_R=200\text{V}, T_J=150^\circ\text{C}$
Diode Capacitance	$C_D$	-	5.0	pF	$V_R=0, f=1.0\text{MHz}$
Reverse Recovery Time	$t_{rr}$	-	50	ns	$I_F=I_R=30\text{mA}, R_L=100\Omega$

## Typical Electrical Characteristic Curves

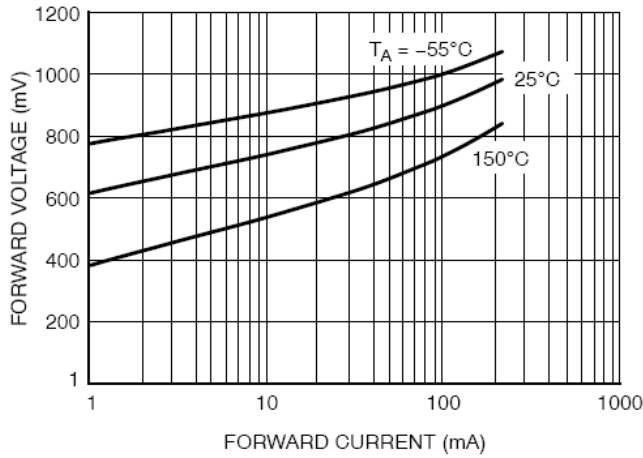


Figure 1. Forward Voltage

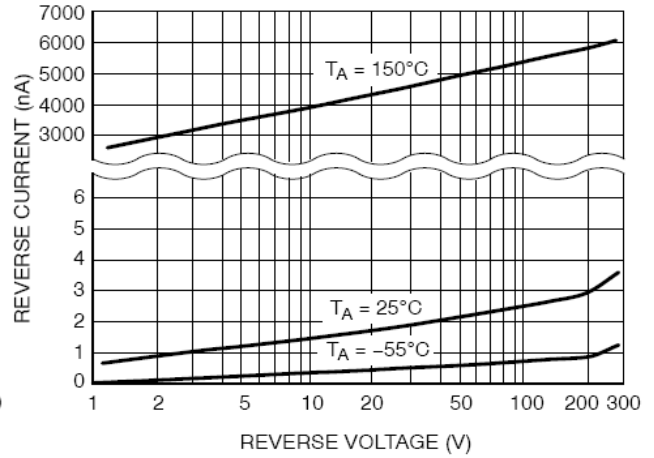


Figure 2. Reverse Leakage

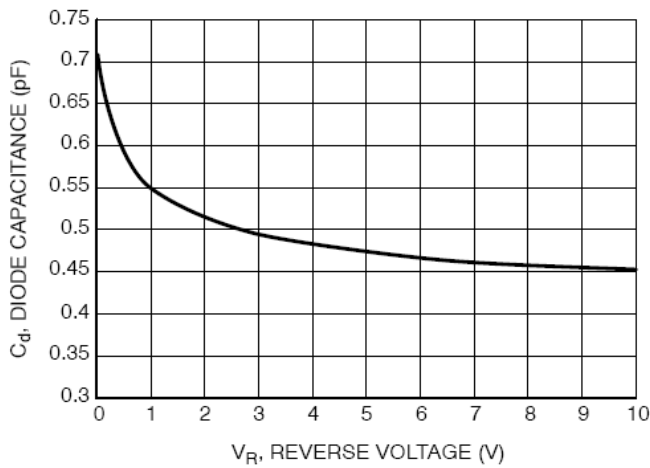
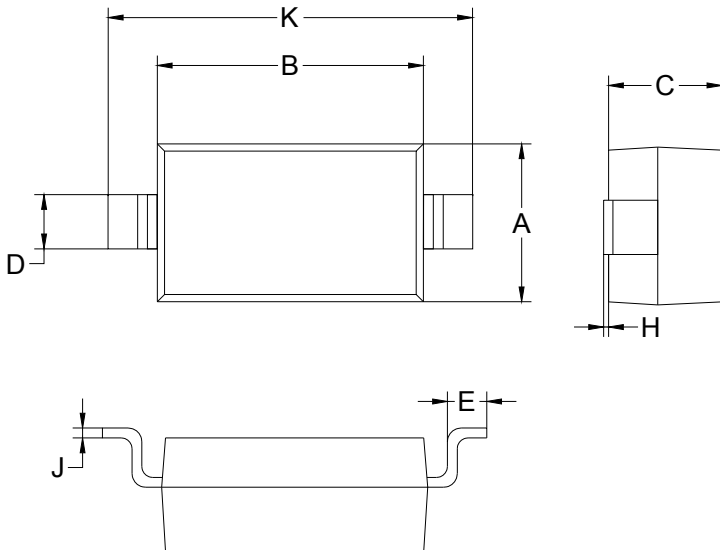


Figure 3. Diode Capacitance

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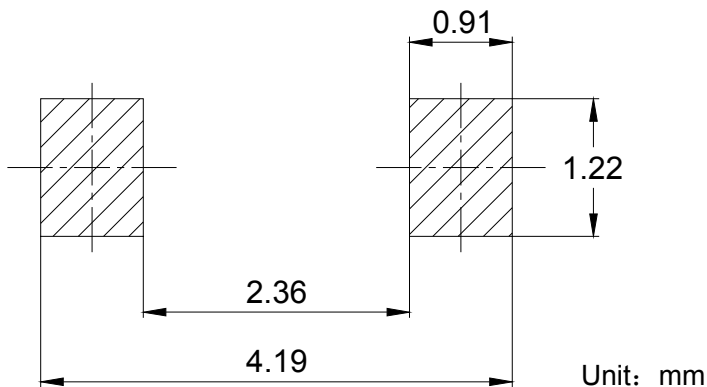
## Package Outline Dimensions

SOD-123



SOD-123		
Dim	Min	Max
A	1.45	1.75
B	2.55	2.85
C	1.15 Typical	
D	0.55 Typical	
E	0.25	0.45
H	0.02	0.10
J	0.1 Typical	
K	3.55	3.85
All Dimensions in mm		

## Soldering Footprint



## Ordering Information

Device	Package	Marking	Quantity	HSF Status
GSMMSD103	SOD-123	JS	3000pcs / Reel	RoHS Compliant