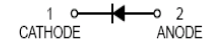




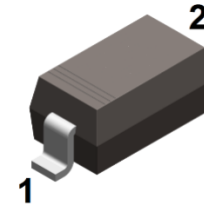
### Features

- Extremely low minority carrier lifetime
- Very low capacitance
- Low reverse leakage



### Typical Applications

- Schottky barrier diodes



### Mechanical Data

- Case: SOD-123
- Terminals: solderable per MIL-STD-202, Method 208

SOD-123

### Ordering Information

Part Number	Package	Shipping	Marking Code
MMSD701	SOD-123	3000 pcs / Tape Reel	XH

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

Parameter	Symbol	Limits	Unit
Repetitive Peak Reverse Voltage	$V_R$	70	V
Forward Continuous Current	$I_F$	200	mA

### Thermal Characteristics

Parameter	Symbol	Limits	Units
Power Dissipation	$P_D$	400	mW
Typical Thermal Resistance per leg	$R_{\theta JA}^*$	250	$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	$T_J$	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^{\circ}\text{C}$

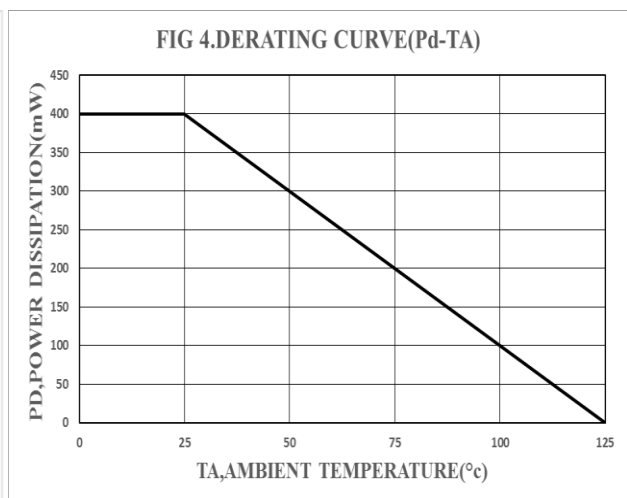
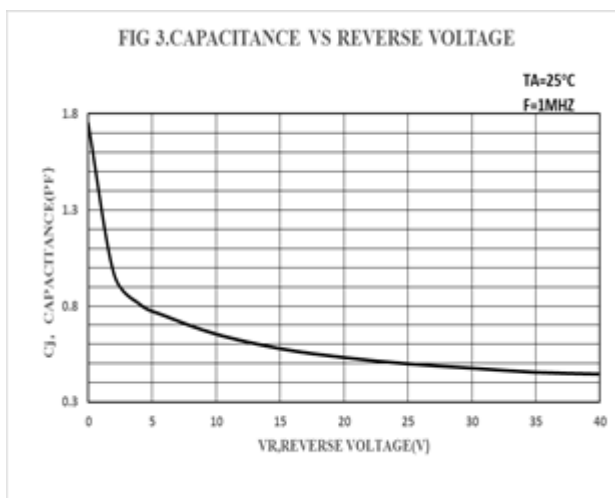
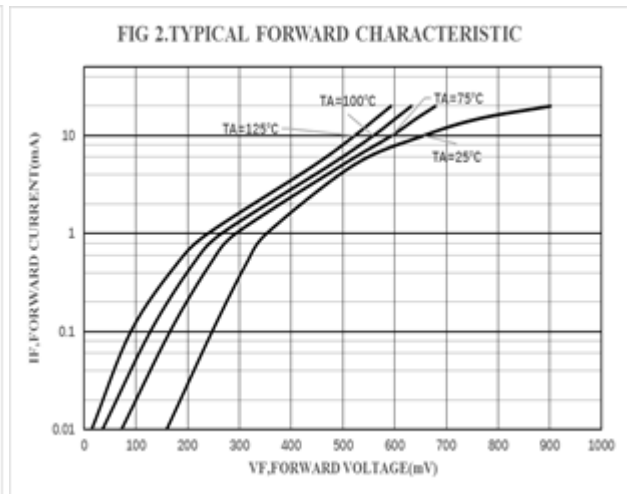
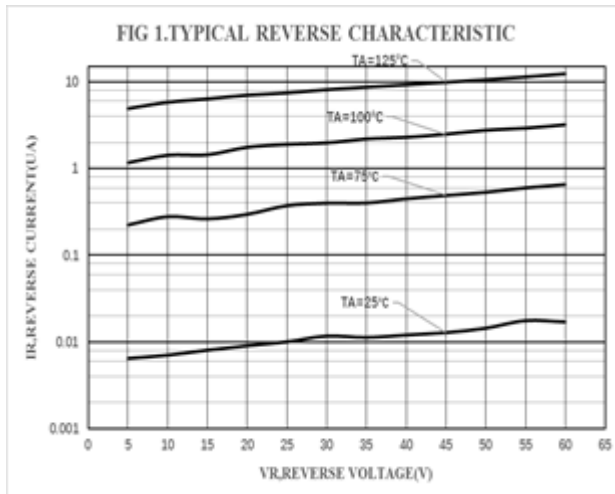
\* Part mounted on FR-4 board with recommended pad layout



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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	70	-	-	V
Forward Voltage	$V_F$	$I_F=1\text{mA}$	-	0.42	0.5	V
		$I_F=10\text{mA}$	-	0.70	1.0	V
Reverse Leakage Current	$I_R$	$V_R=35\text{V}$	-	-	200	nA
Capacitance Between Terminals	$C_T$	$V_R=20\text{V}, f=1\text{MHz}$	-	0.5	1	pF

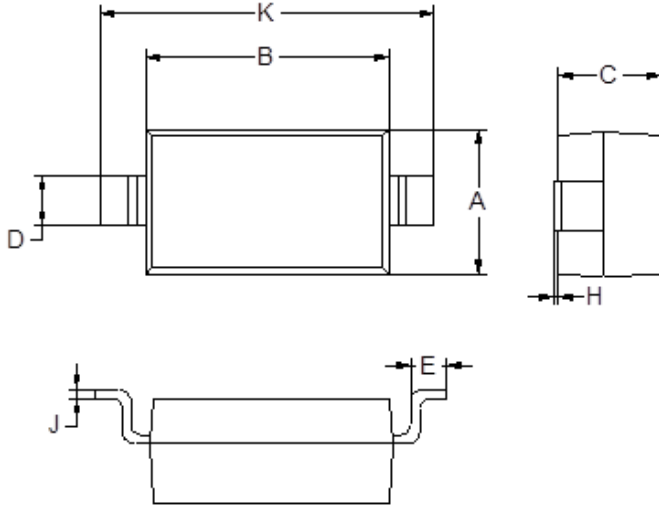
### Ratings and Characteristic Curves ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)





## Package Outline Dimensions (unit: mm)

### SOD-123



SOD-123		
Dim	Min	Max
A	1.45	1.75
B	2.55	2.85
C	1.00	1.30
D	0.50	0.60
E	0.25	0.45
H	0.02	0.10
J	0.05	0.15
K	3.55	3.85

## Mounting Pad Layout (unit: mm)

### SOD-123

