

Features

- Extremely low minority carrier lifetime
- Very low capacitance
- Low reverse leakage
- RoHS compliant with Halogen-free

HF

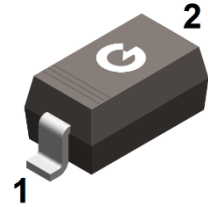
Typical Applications

- Schottky barrier diodes

Mechanical Data

- Case: SOD-123
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

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CATHODE ANODE



SOD-123

Ordering Information

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

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _R	70	V
Forward Continuous Current	I _F	200	mA

Thermal Characteristics

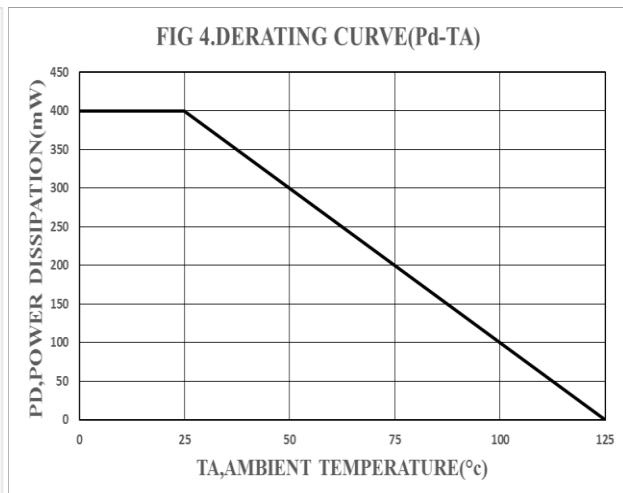
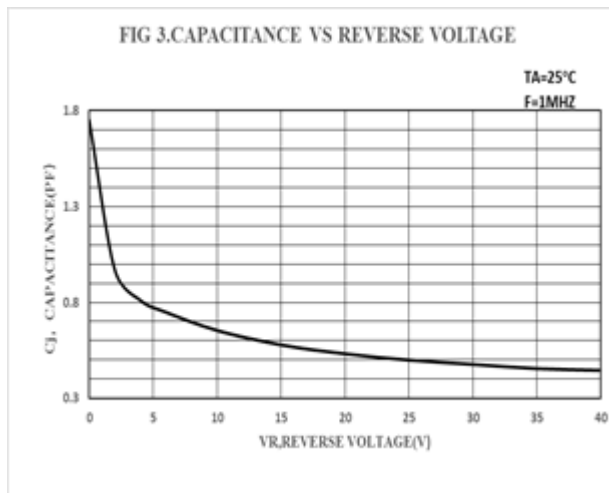
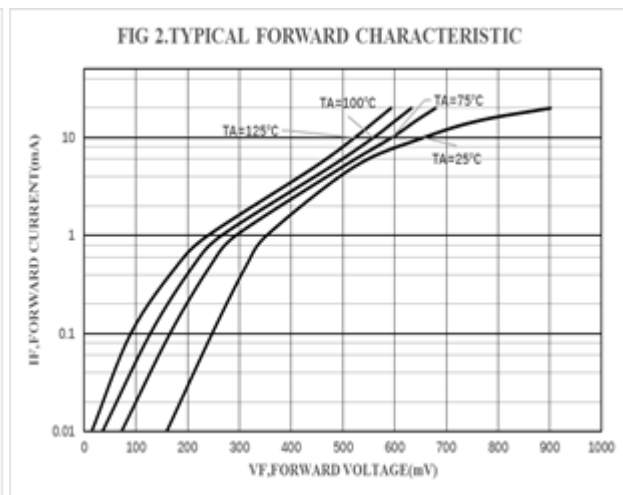
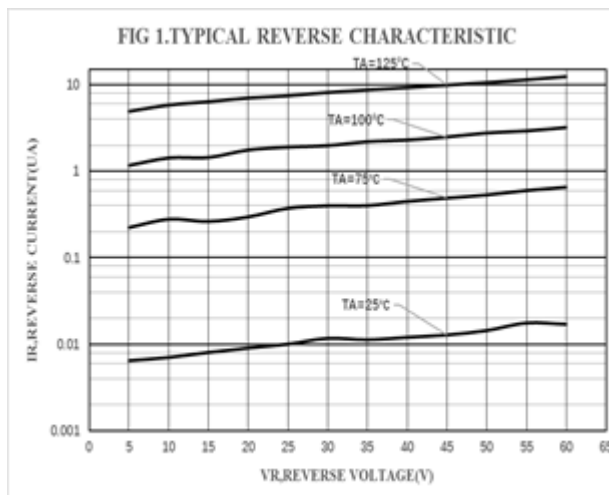
Parameter	Symbol	Value	Unit
Power Dissipation	P _D	400	mW
Typical Thermal Resistance per leg	R _{θJA} *	250	°C /W
Operating Junction Temperature Range	T _J	-55 ~ +125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

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

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

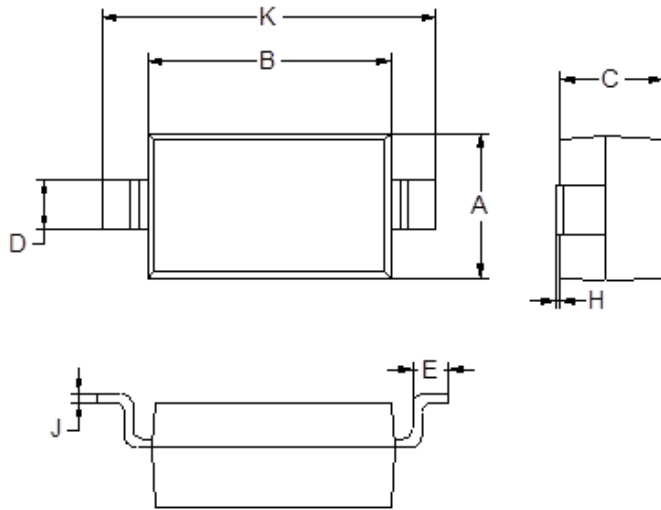
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	70	-	-	V
Forward Voltage	V_F	$I_F=1\text{mA}$	-	0.42	0.5	V
		$I_F=10\text{mA}$	-	0.70	1.0	V
Reverse Leakage Current	I_R	$V_R=35\text{V}$	-	-	200	nA
Capacitance Between Terminals	C_T	$V_R=20\text{V},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

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



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

