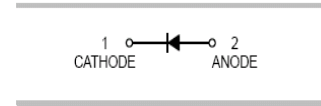




Features

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

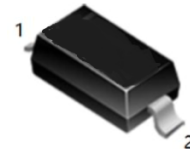


Typical Applications

- 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
MMSD301	SOD-123	3000 pcs / Tape & Reel	XT

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

Parameter	Symbol	Limits	Unit
Repetitive Peak Reverse Voltage	V _R	30	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 _{θJA} *	250	°C /W
Operating Junction Temperature Range	T _J	125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

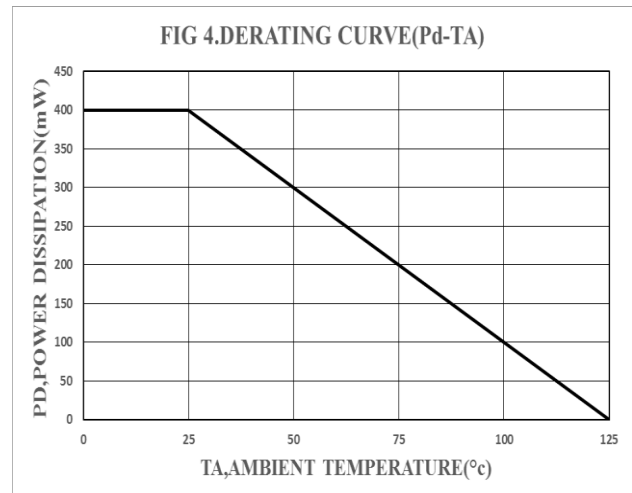
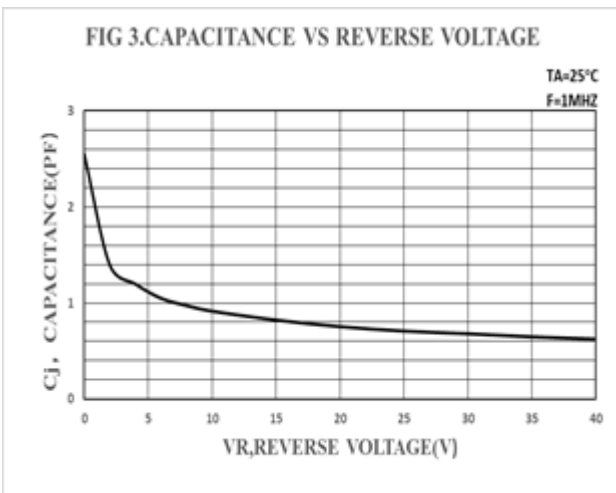
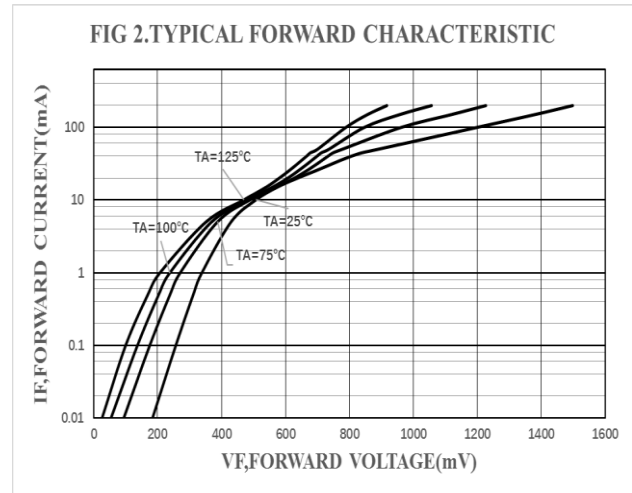
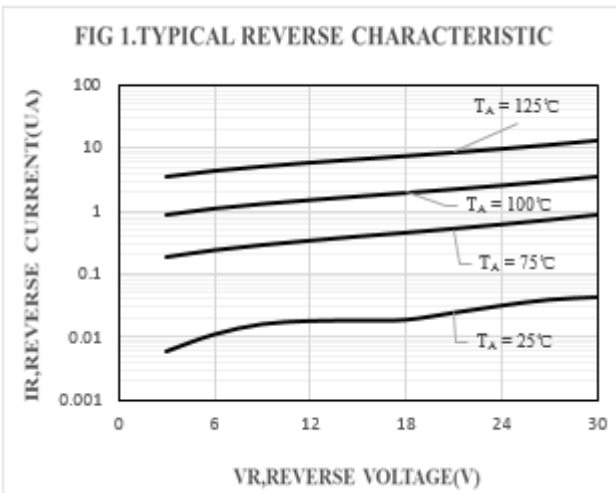
* Part mounted on FR-4 board with recommended pad layout



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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	30	-	-	V
Forward Voltage	V_F	$I_F=1\text{mA}$	-	0.38	0.45	V
		$I_F=10\text{mA}$	-	0.52	0.60	V
Reverse Leakage Current	I_R	$V_R=25\text{V}$	-	-	200	nA
Capacitance Between Terminals	C_T	$V_R=15\text{V}, f=1\text{MHz}$	-	0.9	1.5	pF

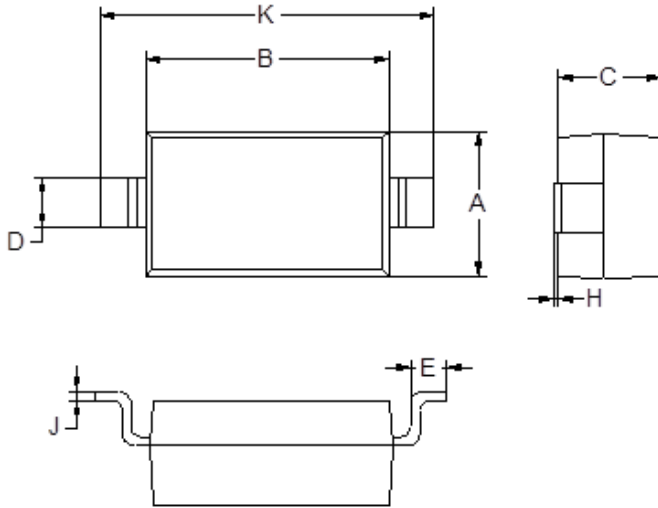
Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)





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

