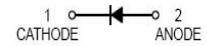


## Features

- Low reverse current and low forward voltage
- High reliability
- Small surface mounting type



## Typical Applications

- For general purpose applications



## Mechanical Data

- Case: SOD-123
- Molding compound, UL flammability classification rating 94V-0
- Terminals: Tin plated leads, solderable per MIL-STD-202, Method 208

**SOD-123**

## Ordering Information

Part Number	Package	Shipping	Marking Code
SD103AW	SOD-123	3000/Tape Reel	S4
SD103BW	SOD-123	3000/Tape Reel	S5
SD103CW	SOD-123	3000/Tape Reel	S6

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

Characteristic	Symbol	SD103AW	SD103BW	SD103CW	Units
Peak repetitive reverse voltage	$V_{RRM}$	40	30	20	V
RMS Reverse voltage	$V_{RMS}$	28	21	14	V
Maximum average forward output current	$I_{F(AV)}$	350			mA
Peak forward surge current, 8.3ms single half-sine-wave	$I_{FSM}$	2			A

## Thermal Characteristics

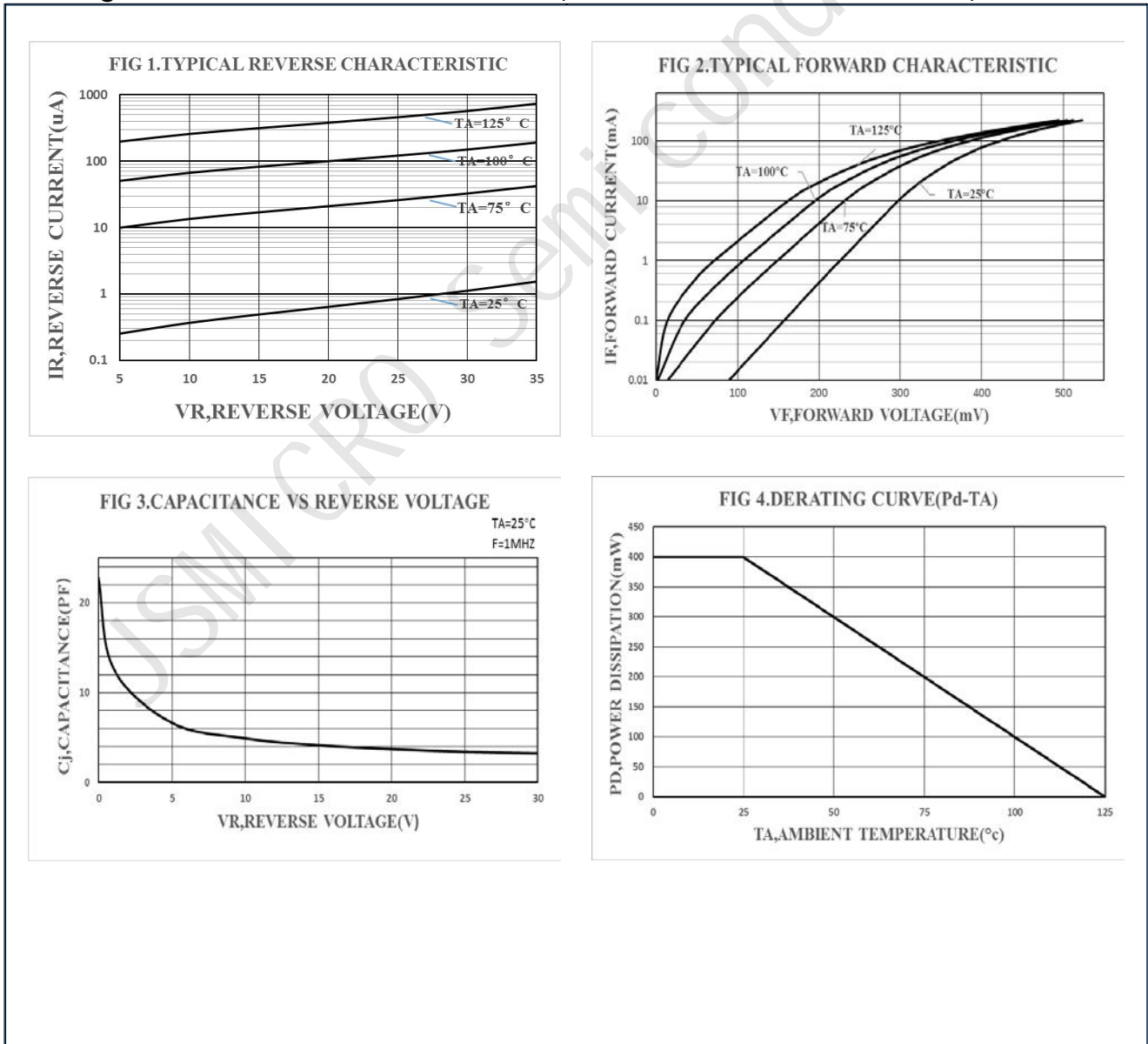
Characteristic	Symbol	Value	Units
Power dissipation	$P_D$	400	mW
Thermal Resistance Junction-to-Air	$R_{\theta JA}^*$	250	$^{\circ}\text{C}/\text{W}$
Thermal Resistance Junction-to-Case	$R_{\theta JC}^*$	138	$^{\circ}\text{C}/\text{W}$
Operating junction temperature range	$T_J$	125	$^{\circ}\text{C}$
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)**

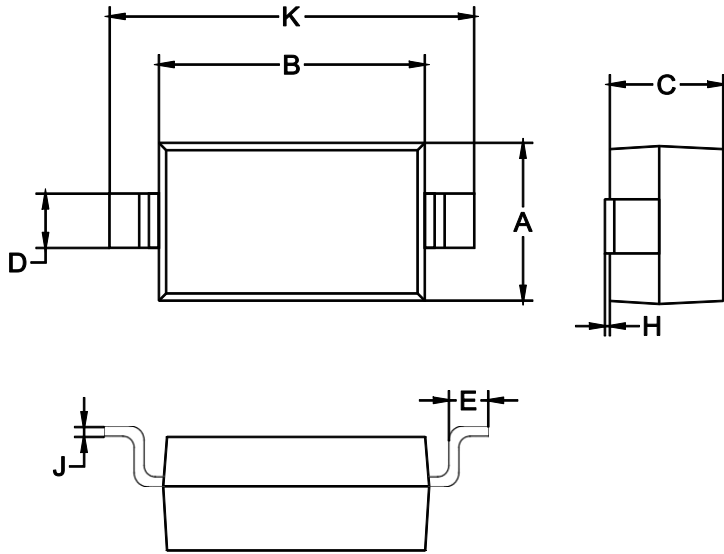
Characteristic	Symbol	Test conditions	Min.	Typ.	Max.	Units
Forward Voltage	$V_F^*$	$I_F=20\text{mA}$	-	-	0.37	V
		$I_F=200\text{mA}$	-	-	0.60	
Maximum Peak Reverse Current	$I_R^{**}$	$V_R=30\text{V}$ (SD103AW) $V_R=20\text{V}$ (SD103BW) $V_R=10\text{V}$ (SD103CW)	-	-	5	$\mu\text{A}$
Capacitance between terminals	$C_T$	$V_R=0\text{V}, f=1\text{MHz}$	-	22	50	$\text{pF}$
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=200\text{mA}$ , $I_{rr}=0.1 \times I_R, R_L=100\Omega$	-	10	-	ns

Pulse width  $\leq 380 \mu\text{s}$ , Duty cycle  $< 2\%$   
 pulse test,  $t_p \leq 5\text{ms}$

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


**Package Outline Dimensions(unit:mm)**

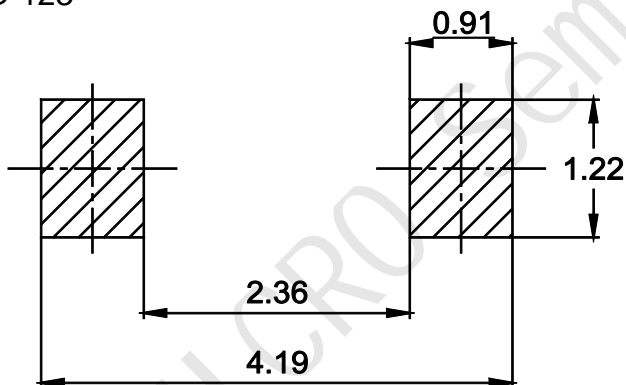
SOD-123



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


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