



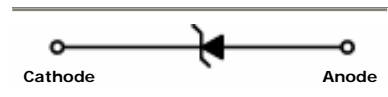
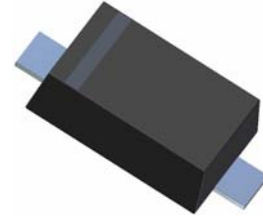
YEA SHIN TECHNOLOGY CO., LTD

SD103AWFL/ BWFL/ CWFL

400mW SOD-123 SURFACE MOUNT
Very Small Outline Flat Lead Plastic Package
Schottky Barrier Diode



SOD-123 Flat Lead



ELECTRICAL SYMBOL

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

Symbol	Parameter	Value	Units
P_D	Power Dissipation	400	mW
T_{STG}	Storage Temperature Range	-65 to +125	$^\circ\text{C}$
T_J	Operating Junction Temperature	+125	$^\circ\text{C}$
V_{RM}	Repetitive Peak Reverse Voltage SD103AWFL	40	V
	SD103BWFL	30	V
	SD103CWFL	20	V
$I_{F(AV)}$	Average Forward Rectified Current	200	mA

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- Low Forward Voltage Drop
- Flat Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.01g

DEVICE MARKING CODES:

Device Type	Device Marking
SD103AWFL	S4
SD103BWFL	S5
SD103CWFL	S6

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

Symbol	Parameter	Test Condition	Limits			Unit
			Min	Typ	Max	
I_R	Reverse Leakage Current	SD103AWFL $V_R=30\text{V}$	---	---	5	μA
		SD103BWFL $V_R=20\text{V}$	---	---	5	
		SD103CWFL $V_R=10\text{V}$	---	---	5	
V_F	Forward Voltage	$I_F=20\text{mA}$	---	---	0.37	Volts
		$I_F=200\text{mA}$	---	---	0.60	
C_t	Junction Capacitance	$V_R=0\text{V}$ $f=1\text{MHz}$	---	50	---	pF

DEVICE CHARACTERISTICS

SD103AWFL/BWFL/CWFL

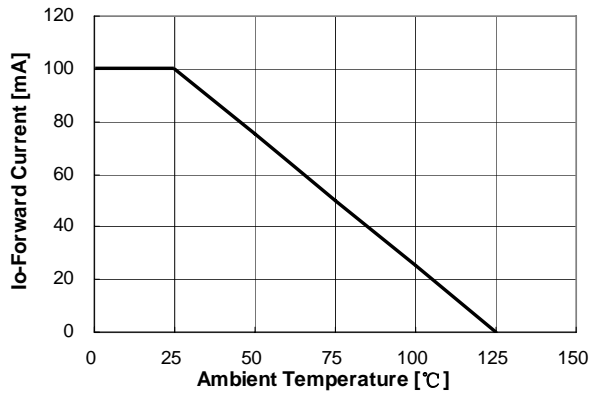


Figure 1. Forward Current Derating Curve

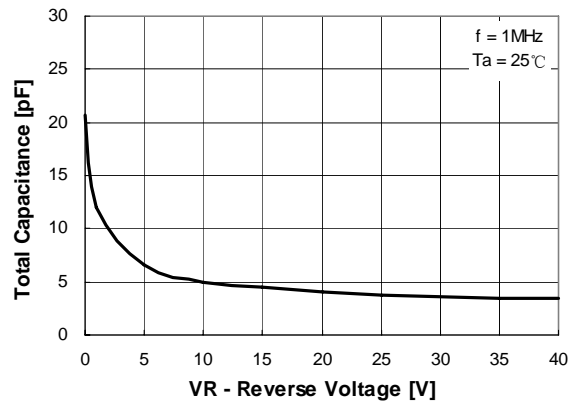


Figure 2. Total Capacitance

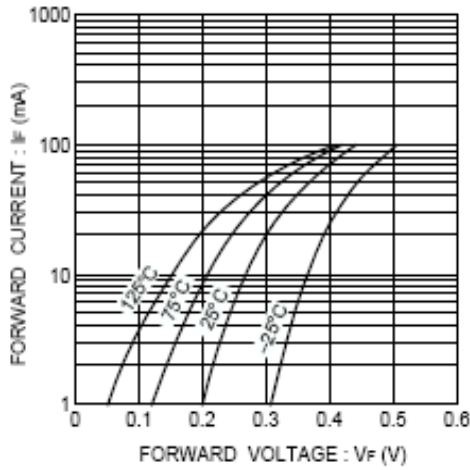


Figure 3. Forward Characteristics

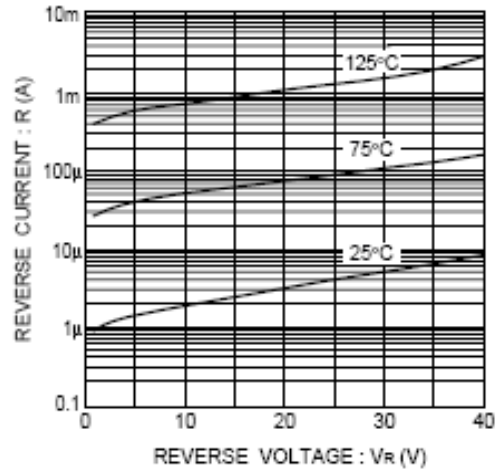
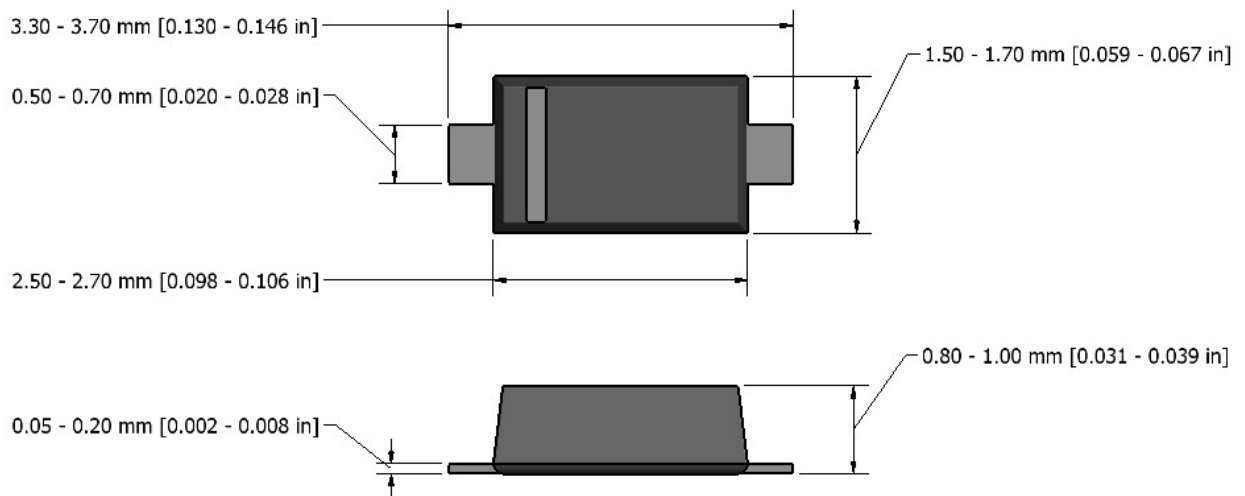


Figure 4. Reverse Characteristics

SOD-123 Package Outline



Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.