

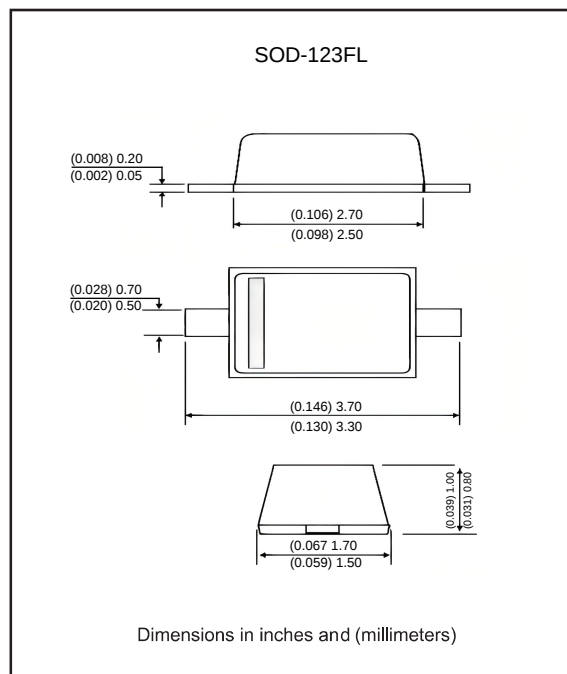
Features

- Fast Switching Diode
- General Purpose Diodes High Voltage Application Diodes
- Surface Device Type Mounting
- RoHS Compliant
- Compliant to Halogen-free

Mechanical data

- Case: SOD-123FL
- Lead : Matte Tin
- Polarity : Indicated by cathode band
- Mounting Position : Any

Package outline



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 +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	+150	$^\circ\text{C}$
V_{RRM}	Repetitive Peak Reverse Voltage	250	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA

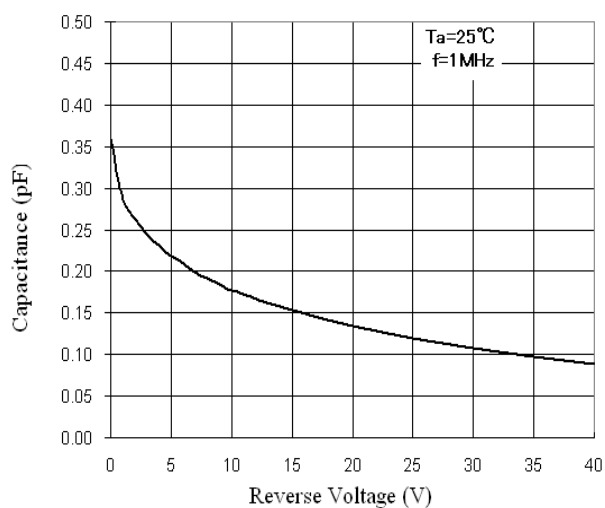
These ratings are limiting values above which the serviceability of the diode may be impaired.

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

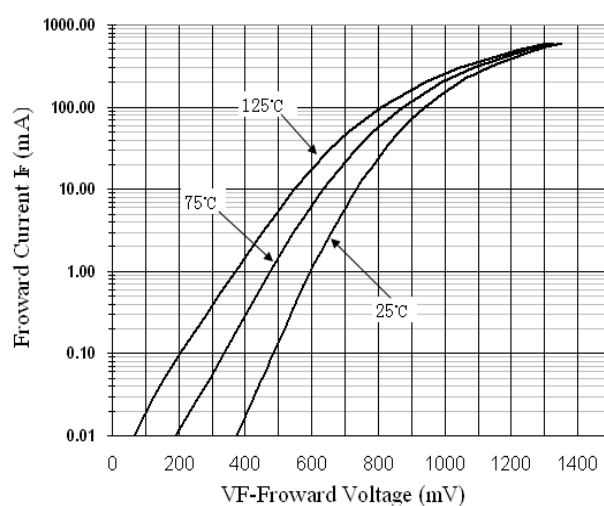
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=100\mu\text{A}$	250	---	Volts
I_R	Reverse Leakage Current	$V_R=200\text{V}$	---	100	nA
V_F	Forward Voltage	$I_F=100\text{mA}$	---	1.0	Volts
		$I_F=200\text{mA}$	---	1.25	Volts
T_{RR}	Reverse Recovery Time	$I_F=I_R=30\text{mA}$ $R_L=100\Omega$ $I_{RR}=3\text{mA}$	---	50	nS
C	Capacitance	$V_R=0\text{V}$, $f=1\text{MHz}$	---	5.0	pF

Rating and characteristic curves

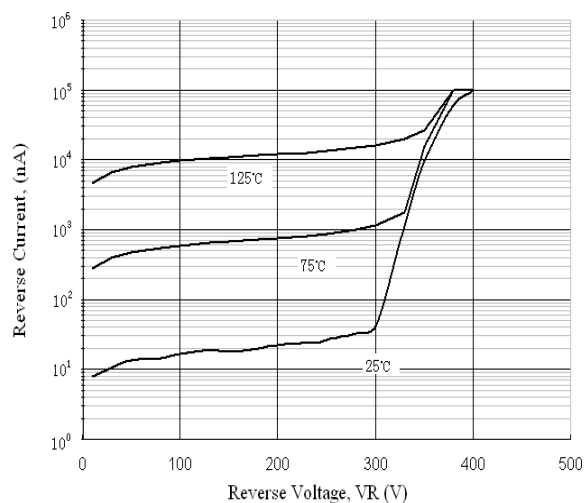
Total Capacitance



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage



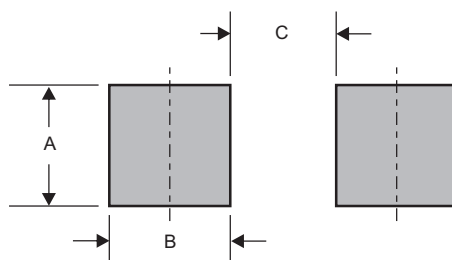
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
BAV21W-F1	H3

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SOD-123FL	0.059 (1.50)	0.059 (1.50)	0.094 (2.40)