

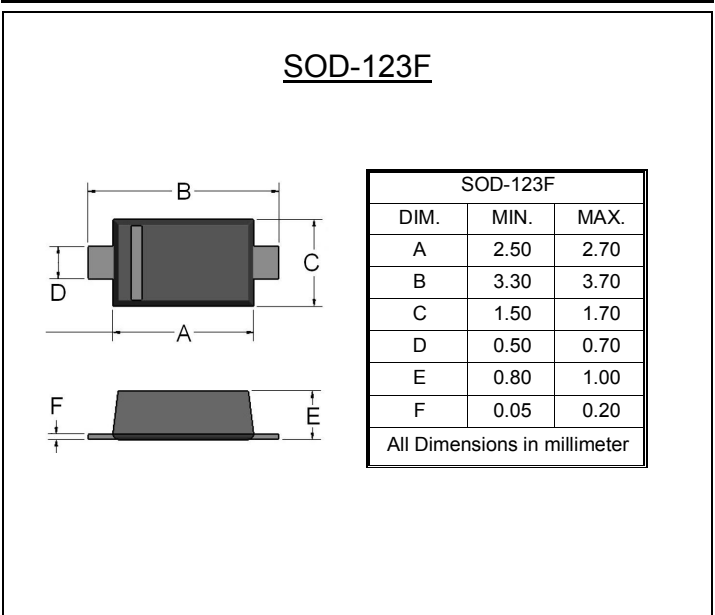
SURFACE MOUNT FAST SWITCHING DIODE	REVERSE VOLTAGE – 250 Volts FORWARD CURRENT – 0.2 Ampere
---	---

FEATURES

- Fast switching diode
- SOD-123F package
- Surface device type mounting
- General Purpose Diodes High Voltage Application
- Green EMC
- Matte Tin(Sn) Lead Finish
- RoHS compliant
- Band Indicates Cathode

MECHANICAL DATA

- Polarity: Color band denotes cathode



Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	BAV21WF	Units
Repetitive Peak Reverse Voltage	VRRM	250	V
Repetitive Peak Forward Current	IFRM	200	mA
Power Dissipation	P _D	400	mW
Operating Temperature Range	T _J	+150	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	BAV21WF	Unit
Breakdown voltage	I _R =100uA	BV	250	V
Maximum Forward Voltage	I _F = 100mA I _F = 200mA	V _F	1000 1250	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 200V	I _R	100	nA
Typical Diode Capacitance	V _R = 0V, f=1MHz	C _D	5	pF
Reverse Recovery time	I _F =30mA, I _R =30mA R _L =100Ω I _{RR} =3mA,	trr	50	ns

Figure 1. Forward Voltage vs Ambient Temperature

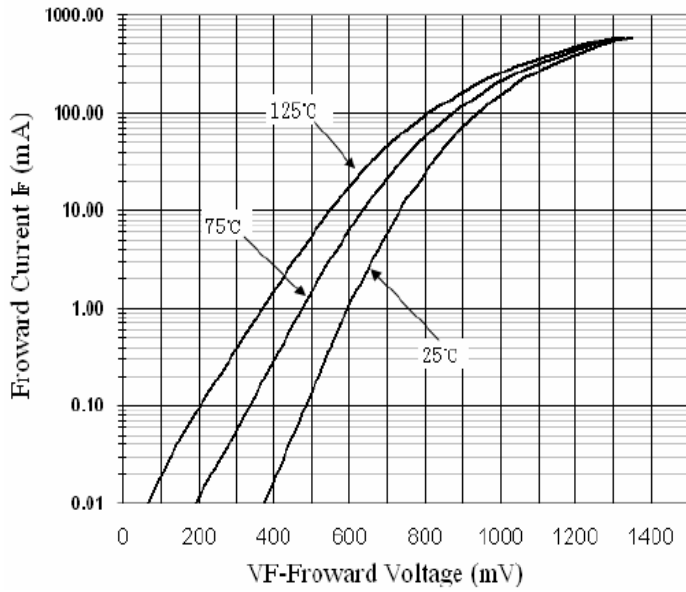


Figure 2. Total Capacitance

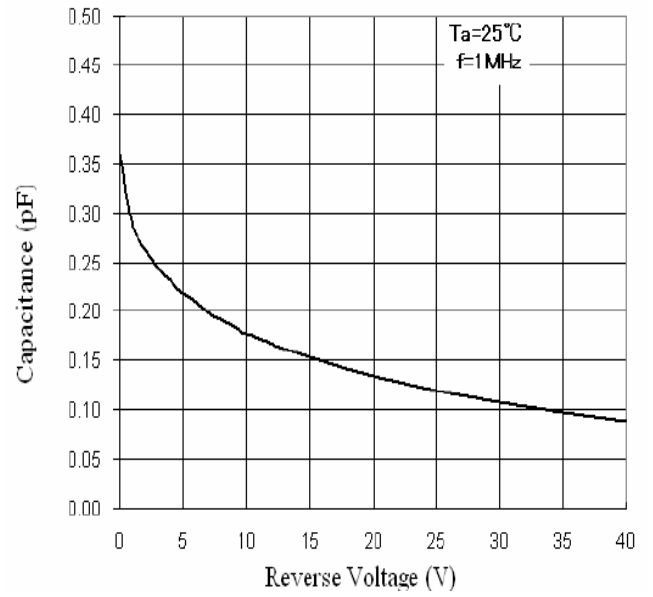
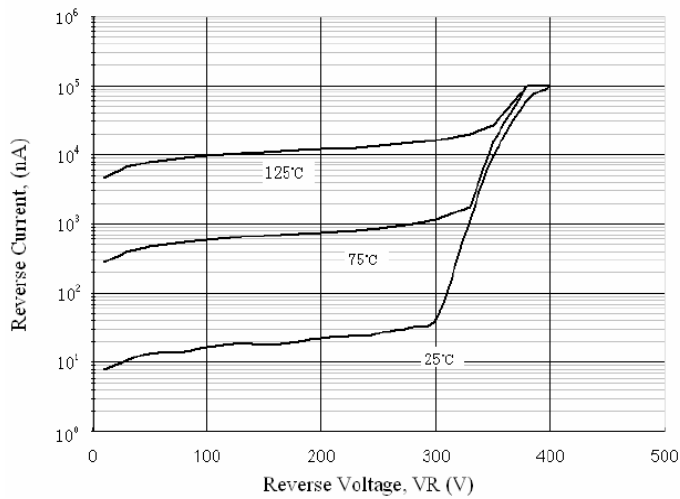


Figure 3. Reverse Voltage vs Reverse Current



Device Marking:

Device P/N	Marking code	Equivalent Circuit Diagram
BAV21WF	H3	1 ○ — <— ○ 2

Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.