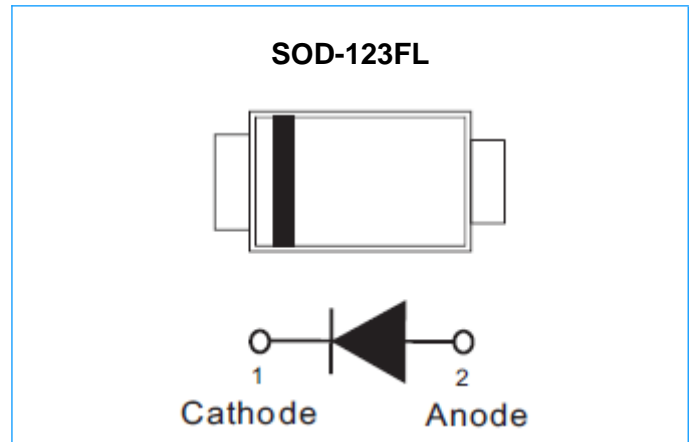


Surface Mount Schottky Barrier Rectifiers

SBD202D1~SBD210D1
20 to 100 V
2A
SOD-123FL

Features

- ⊍ Fast switching speed
- ⊍ Surface mount package ideally suited for automatic insertion
- ⊍ Low power loss, high efficiency
- ⊍ Ultra thin profile package for space constrained utilization
- ⊍ Lead free in compliance with EU RoHS 2.0
- ⊍ Green molding compound as per IEC 61249 standard



Mechanical Data

- ⊍ Case: SOD-123FL, Plastic
- ⊍ Terminals: Solderable per MIL-STD-750, Method 2026
- ⊍ Apporx. Weight: 0.0006 ounces, 0.017 grams
- ⊍ Polarity: Color band denotes cathode end

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

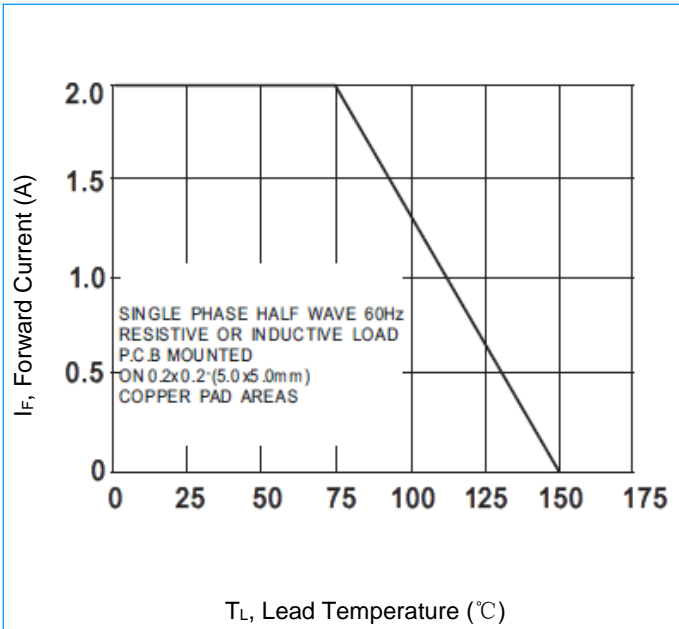
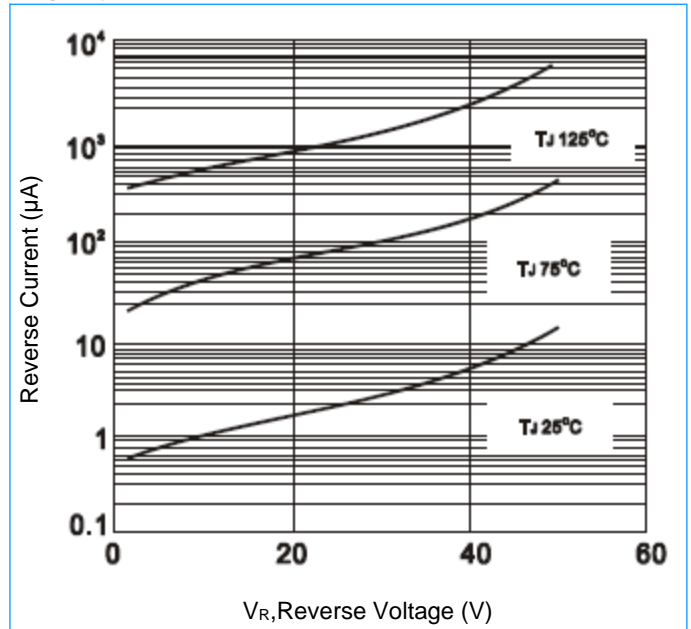
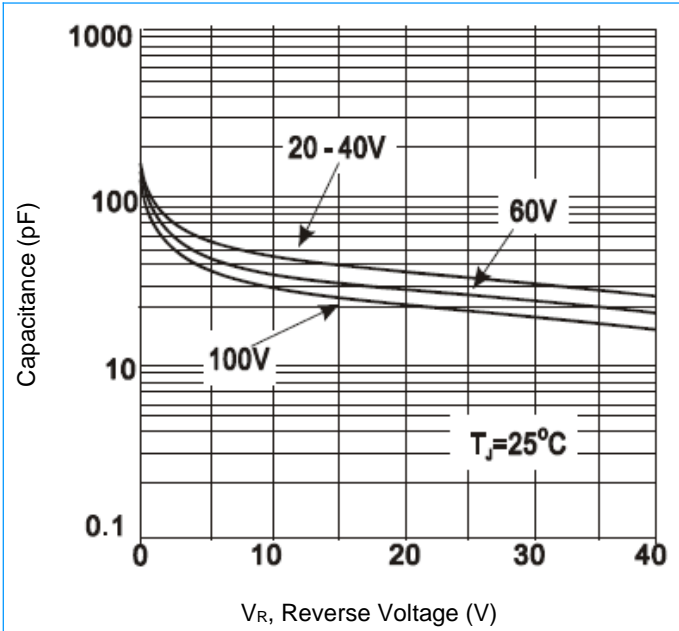
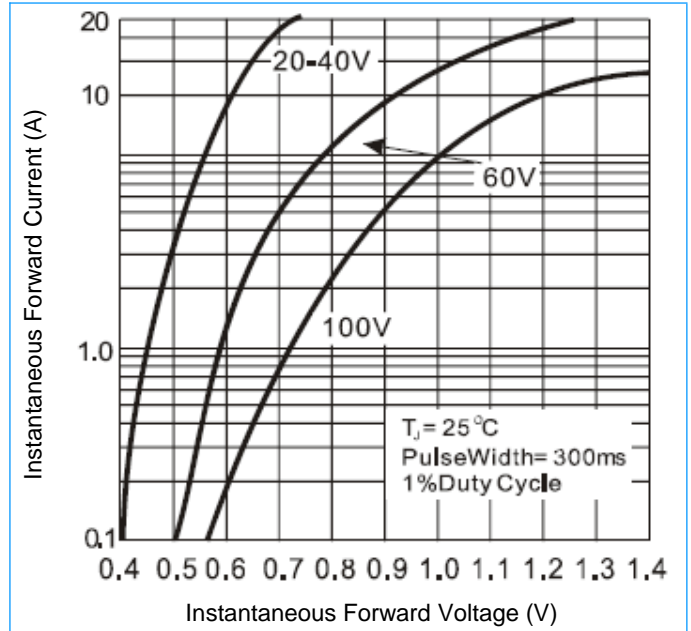
Parameter	Symbol	SBD202D1	SBD203D1	SBD204D1	SBD206D1	SBD210D1	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	60	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	42	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	60	100	V
Average Rectified Current at $T_A=75^\circ\text{C}$	$I_{F(AV)}$	2					A
Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	I_{FSM}	50					A
Maximum Forward Voltage at $I_F=2\text{A}$	V_F	0.5			0.7	0.85	V
Reverse Leakage Current at V_{RRM}	I_R	100			40		μA
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	60					$^\circ\text{C}/\text{W}$
Operating Junction Temperature and Storage Temperature Range	T_J, T_{STG}	-50 to +150					$^\circ\text{C}$

- Notes:**1. Mounted with minimum recommended pad size, PC Board FR4.
2. $T_A=25^\circ\text{C}$ unless otherwise specified.

Surface Mount Schottky Barrier Rectifiers

SBD202D1~SBD210D1
20 to 100 V
2A
SOD-123FL

Rating and Characteristic Curves

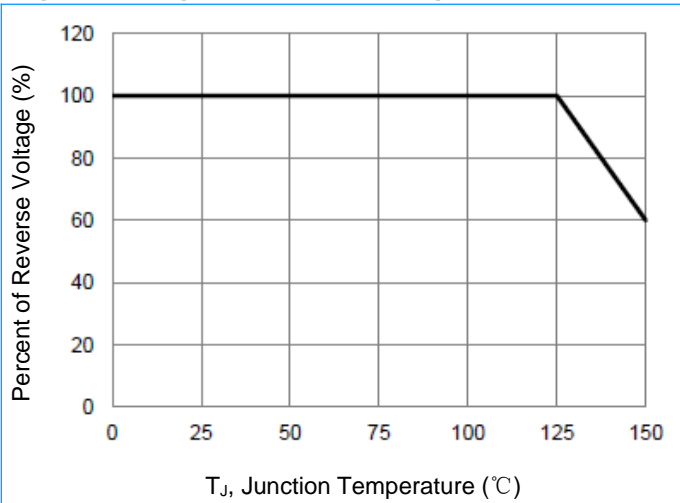
Fig1. Forward Current Derating Curve

Fig2. Typical Reverse Characteristic

Fig3. Typical Junction Characteristic

Fig4. Typical Instantaneous Forward Characteristics


Surface Mount Schottky Barrier Rectifiers

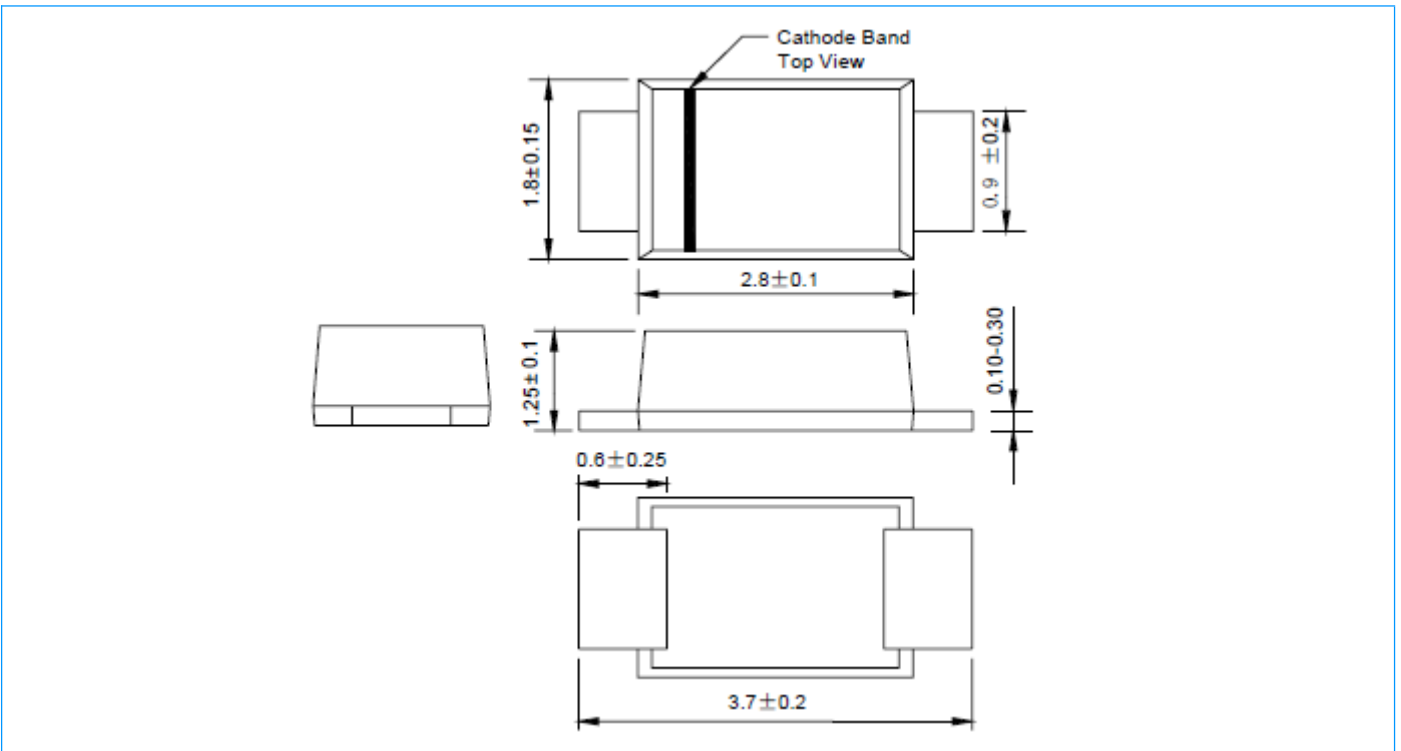
SBD202D1~SBD210D1	20 to 100 V	2A	SOD-123FL
-------------------	-------------	----	-----------

Rating and Characteristic Curves (Continue)

Fig5. Operating Temperature Derating Curve



SOD-123FL Package Outline (Unit: inch(mm))



Packaging Information

Part Number	Component Package	Quantity	Packaging Option
SBD202D1~SBD210D1	SOD-123FL	10000 PCS	per 13" plastic Reel
		3000 PCS	per 7" plastic Reel