

SS1020FL~SS10200FL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 200 Volt **CURRENT** 1 Ampere

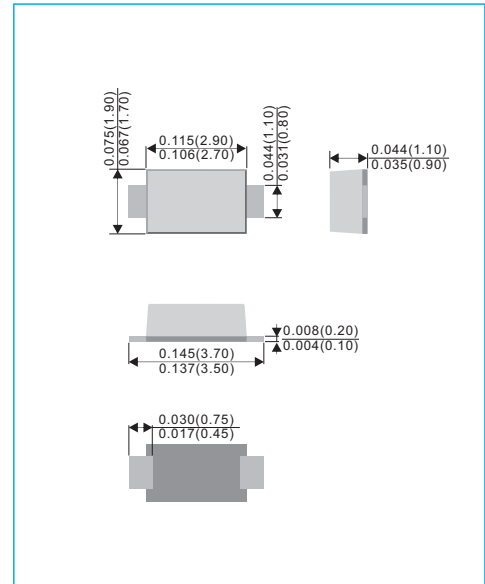
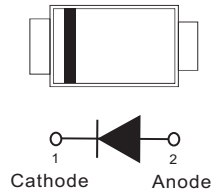
SOD-123FL Unit : inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- 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, 0.0173 grams
- Polarity: Color band denotes cathode end



ABSOLUTE RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	SS10150FL	SS10200FL	UNITS
Marking Code	-	G2	G3	G4	G6	G10	G15	G20	-
Reverse Voltage	V_R	20	30	40	60	100	150	200	V
Peak Reversr Voltage	V_{RRM}	20	30	40	60	100	150	200	V
Average Rectified Current	$I_{F(AV)}$	1							A
Forward Current RMS, D=0.5	$I_{F(RMS)}$	2							A
Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	I_{FSM}	40					30		A

ELECTRICAL AND THERMAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	SS10150FL	SS10200FL	UNITS
Minimum Reverse Breakdown Voltage at I _R =500μA	V _R	20	30	40	60	100	150	200	V
Maximum Forward Voltage at I _F =1A	V _F	0.55			0.7	0.8	0.85		V
Reverse Leakage Current at V _{RRM}	I _R	30							μA
Typical Thermal Resistance (Note 1) (Note 2)	R _{θJC} R _{θJA}	32 200							°C/W
Typical Junction Capacitance Rating at V _R =0V	C _J	155			125	100	85		pF
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

Note:1.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
2.Mounted on a FR4 PCB, single-sided copper, mini pad.

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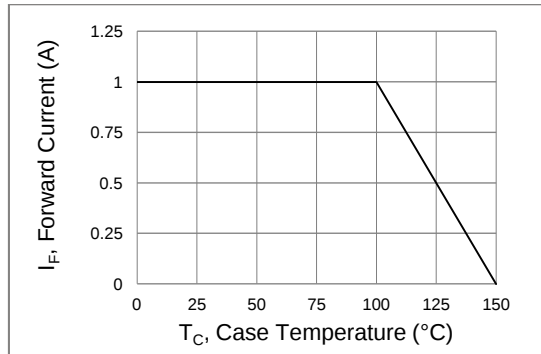


Fig.1 Forward Current Derating Curve

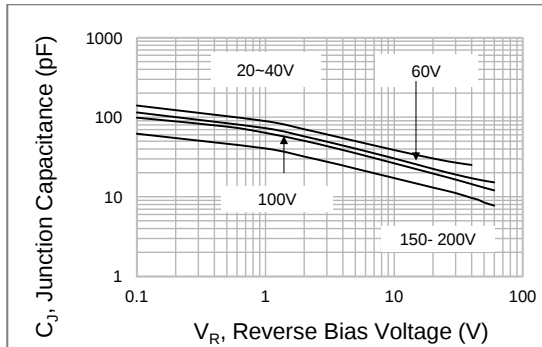


Fig.2 Typical Junction Capacitance

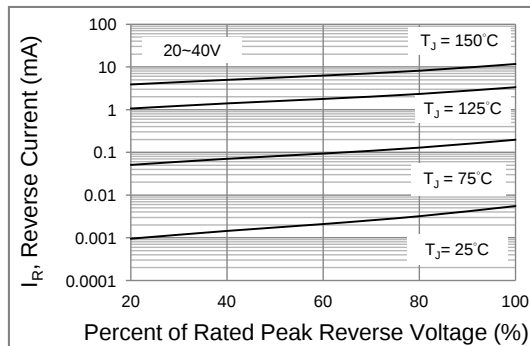


Fig.3 Typical Reverse Characteristics

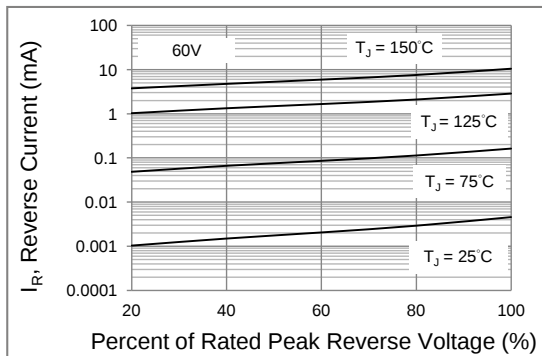


Fig.4 Typical Reverse Characteristics

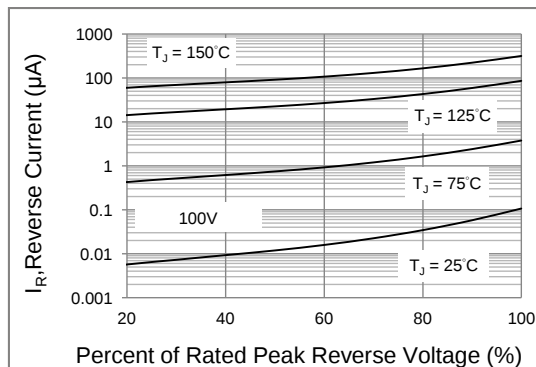


Fig.5 Typical Reverse Characteristics

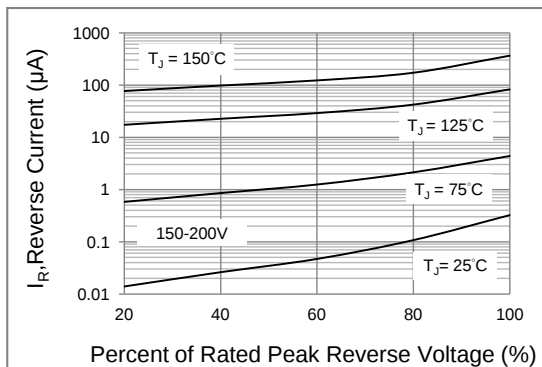


Fig.6 Typical Reverse Characteristics

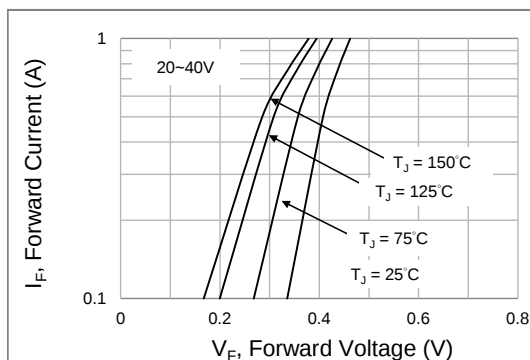


Fig.7 Typical Forward Characteristics

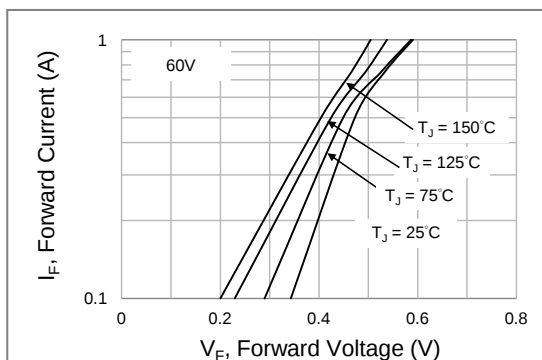


Fig.8 Typical Forward Characteristics

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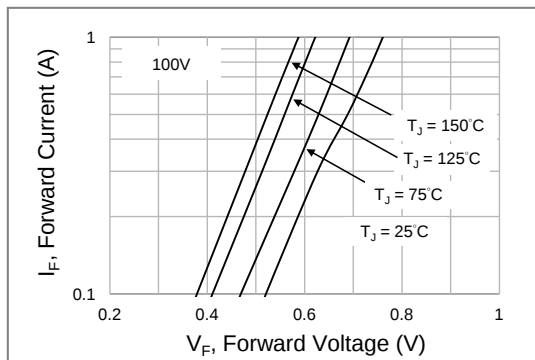


Fig.9 Typical Forward Characteristics

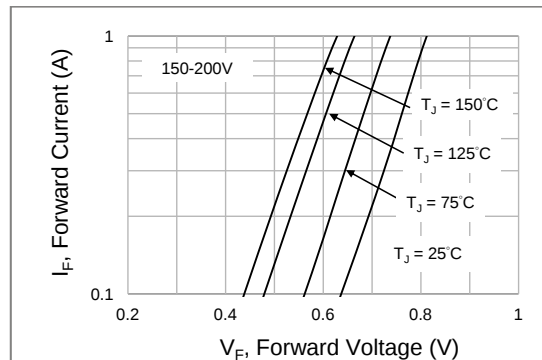


Fig.10 Typical Forward Characteristics

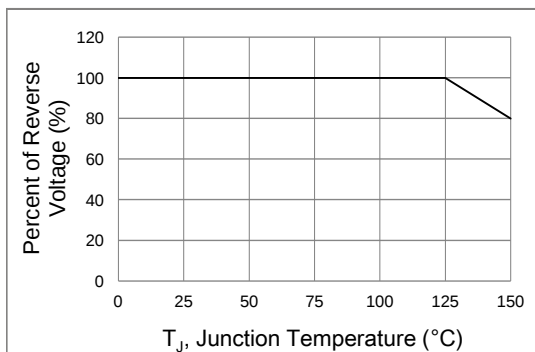


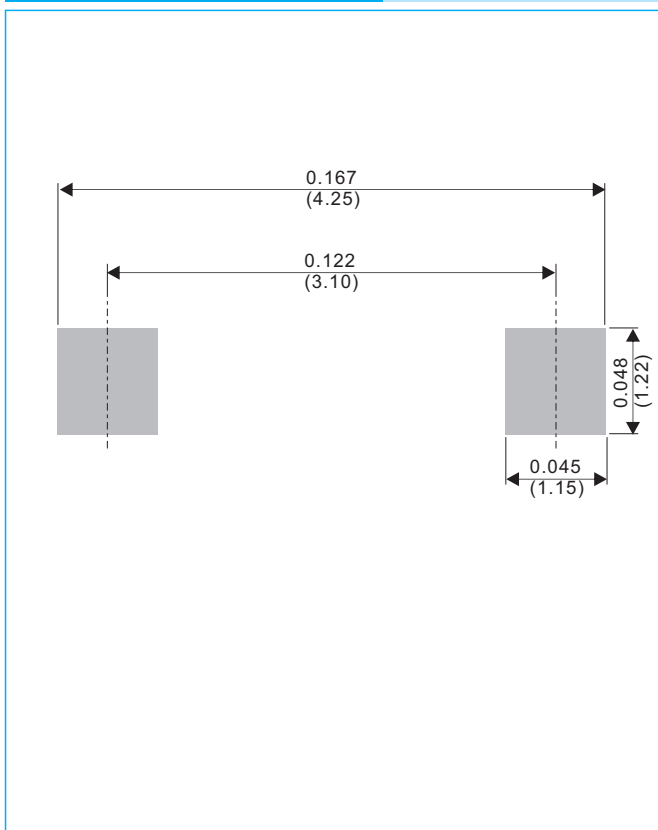
Fig.11 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT

SOD-123FL

Unit : inch(mm)



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

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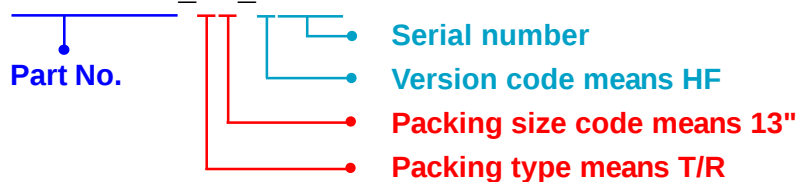
Part No_packing code_Version

SS1020FL_R1_00001

SS1020FL_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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