

SS2020FL~SS20100FL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

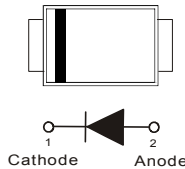
VOLTAGE 20 to 100 Volt **CURRENT** 2 Ampere

FEATURES

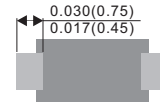
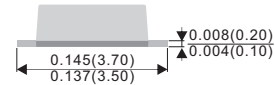
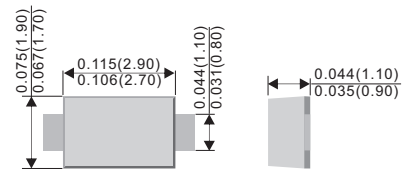
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Ultra thin profile package for space constrained utilization
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

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



SOD-123FL Unit : inch(mm)



ABSOLUTE RATINGS

PARAMETER	SYMBOL	SS2020FL	SS2030FL	SS2040FL	SS2060FL	SS20100FL	UNITS
Marking Code		GM	GN	GP	GQ	GR	
Reverse Voltage	V_R	20	30	40	60	100	V
Peak Reverse Voltage	V_{RRM}	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

ELECTRICAL AND THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	SS2020FL	SS2030FL	SS2040FL	SS2060FL	SS20100FL	UNITS
Minimum Reverse Breakdown Voltage at I _R =500μA	V _R	20	30	40	60	100	V
Maximum Forward Voltage at I _F =2A	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 _{θJA}	60					°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-50 to +150					°C

Note:1 Mounted with minimum recommended pad size, PC Board FR4.

2. $T_A=25^{\circ}\text{C}$ unless otherwise specified.

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Rating and Characteristic Curves

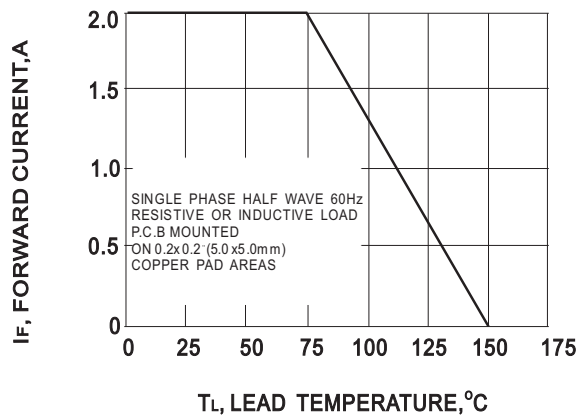


FIG. 1 FORWARD CURRENT DERATING CURVE

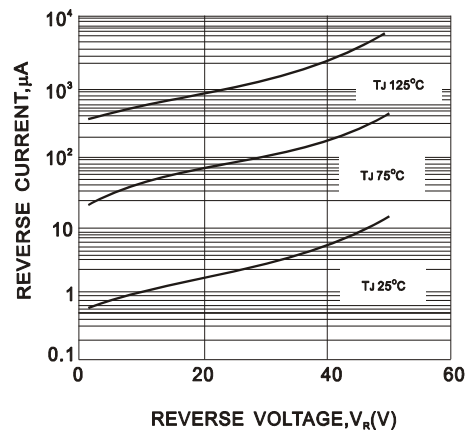


FIG. 2 TYPICAL REVERSE CHARACTERISTIC

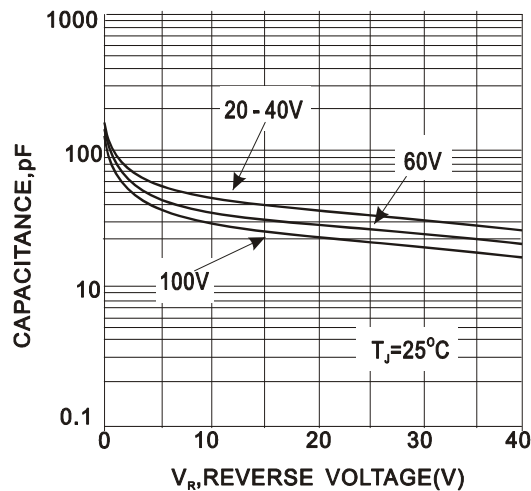


FIG. 3 TYPICAL JUNCTION CHARACTERISTIC

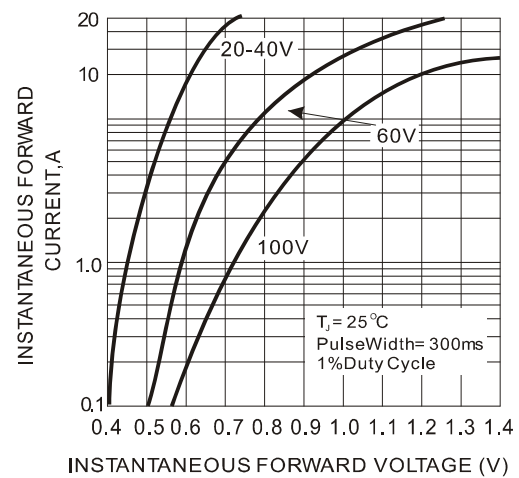


FIG. 4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

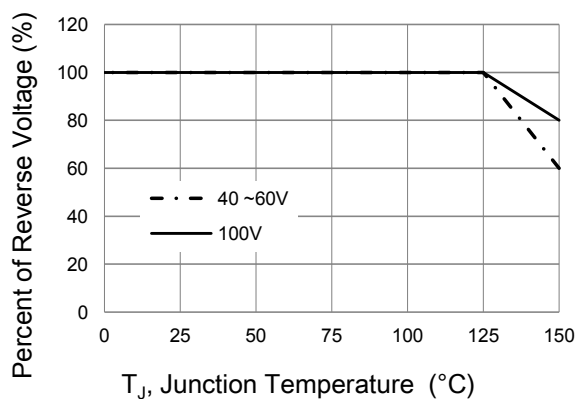
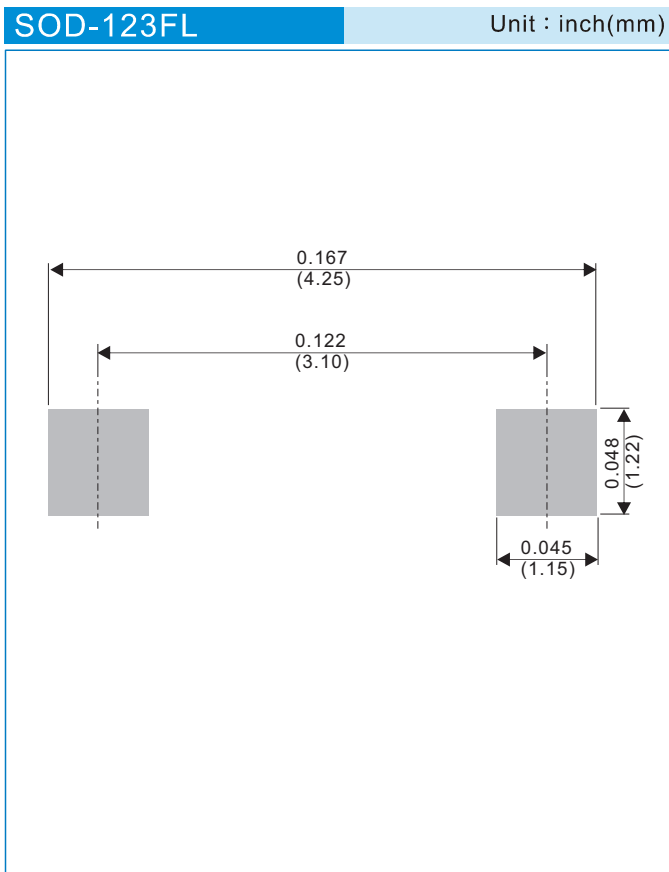


Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT



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

SS2020FL_R1_00001

SS2020FL_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number
Version code means HF
Packing size code means 13"
Packing type means T/R

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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