



# SS2020FL~SS20100FL

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

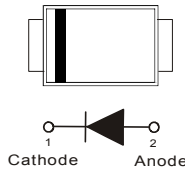
**SOD-123FL** Unit : inch(mm)

### 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



### 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 Reversr 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 $I_R=500\mu\text{A}$	$V_R$	20	30	40	60	100	V
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		$\mu\text{A}$
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	60					$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-50 to +150					$^\circ\text{C}$

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

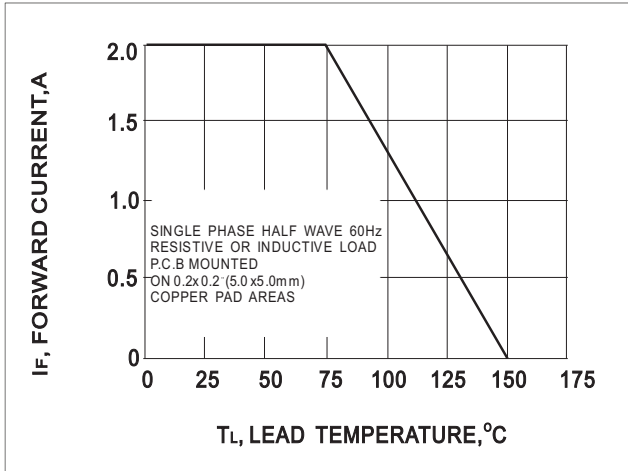


FIG. 1 FORWARD CURRENT DERATING CURVE

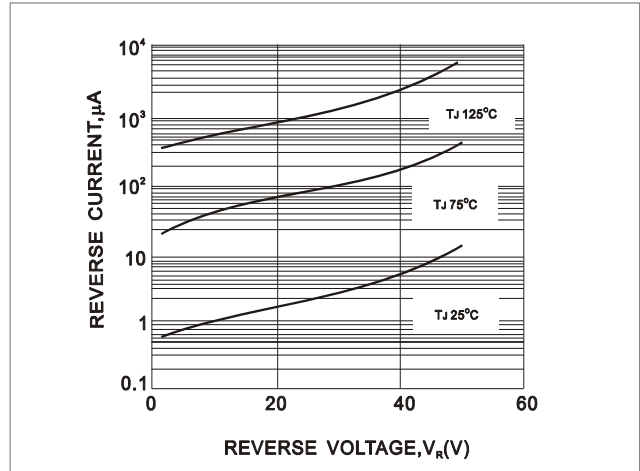


FIG. 2 TYPICAL REVERSE CHARACTERISTIC

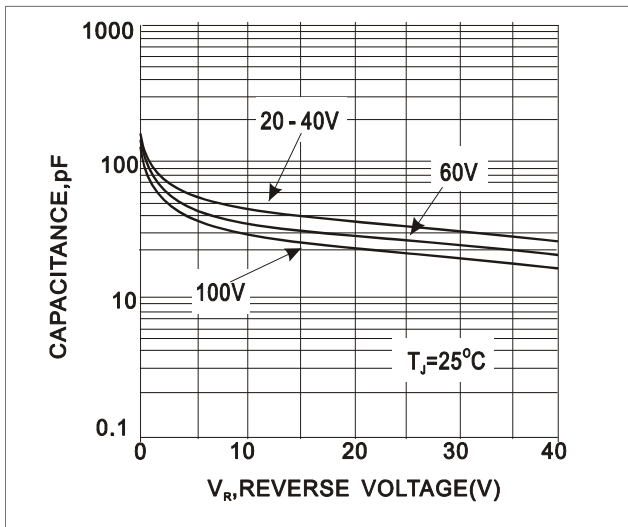


FIG. 3 TYPICAL JUNCTION CHARACTERISTIC

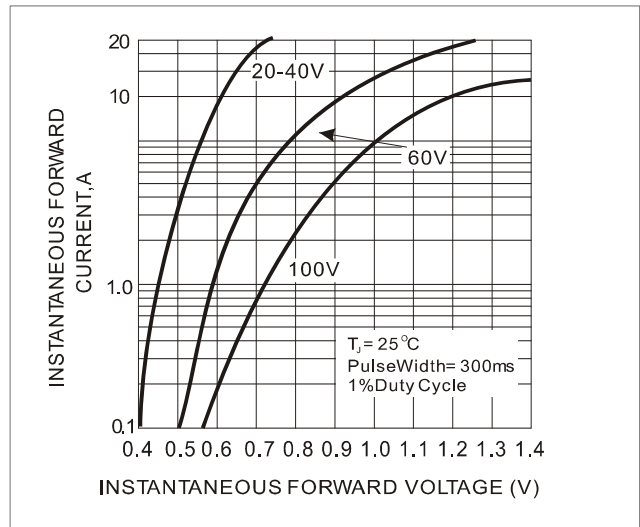


FIG. 4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

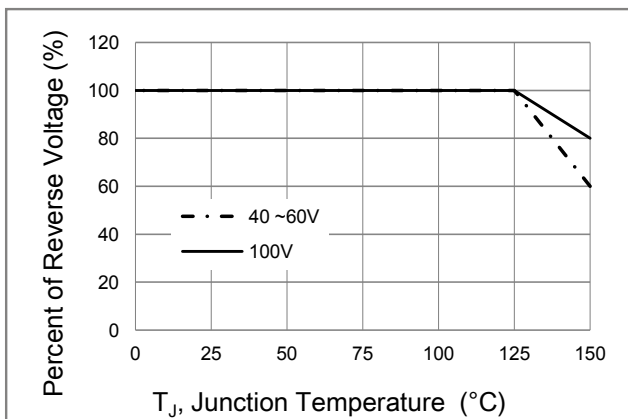
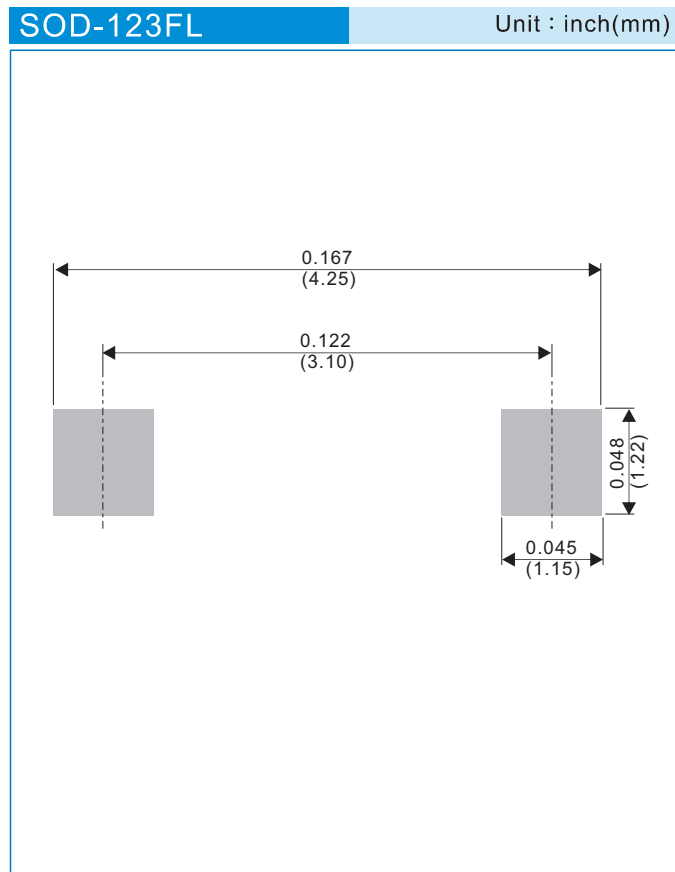


Fig.5 Operating Temperature Derating Curve



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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



## SS2020FL~SS20100FL

### Part No\_packing code\_Version

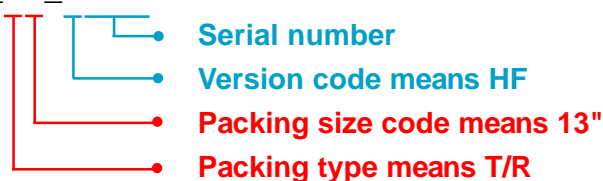
SS2020FL\_R1\_00001

SS2020FL\_R2\_00001

For example :

**RB500V-40\_R2\_00001**

Part No.



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



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