

# SS1020FL~SS10100FL

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 20 to 100 Volts **CURRENT** 1.0 Amperes

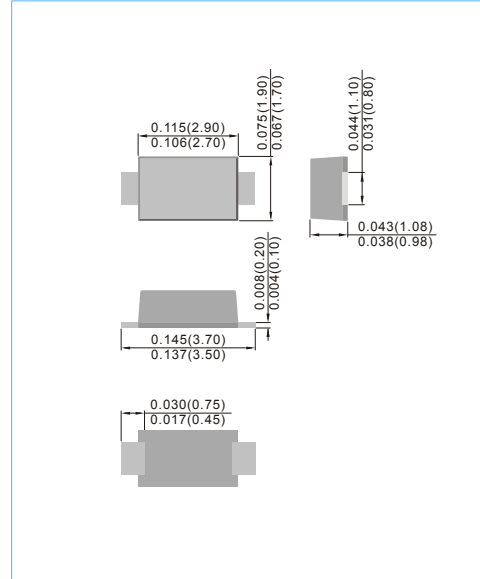
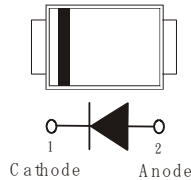
**SOD-123FL** Unit : inch(mm)

### FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### 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	UNITS
Marking Code	-	G2	G3	G4	G6	G10	-
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 $T_A=75^{\circ}\text{C}$	$I_{F(AV)}$	1.0					A
Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	$I_{FSM}$	40					A

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

PARAMETER	SYMBOL	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	UNITS
Minimum Reverse Breakdown Voltage at $I_R=500\mu\text{A}$	$V_R$	20	30	40	60	100	V
Maximum Forward Voltage at $I_F=1.0\text{A}$	$V_F$	0.55	0.55	0.55	0.70	0.85	V
Reverse Leakage Current at $V_{RRM}$	$I_R$	30					$\mu\text{A}$
Typical Thermal Resistance ,Junction to Ambient	$R_{\theta JA}$	88					$^{\circ}\text{C/W}$
Typical Junction Capacitance Rating at $V_R=0\text{V}$	$C_J$	60	60	60	50	40	pF
Operating Junction Temperature and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125					$^{\circ}\text{C}$

Note.1 Mounted with minmum recommended pas size, PC Board FR4.  
2.  $T_A=25^{\circ}\text{C}$  unless otherwise specified.

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## Rating and Characteristic Curves

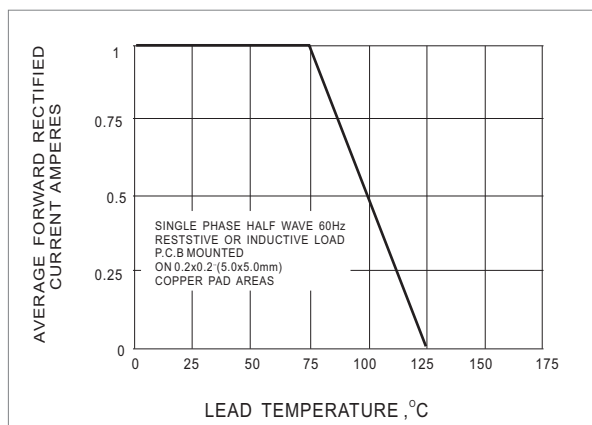


FIG. 1-FORWARD CURRENT DERATING CURVE

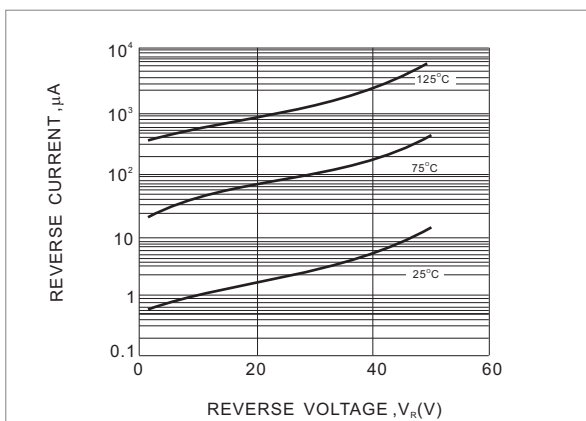


FIG. 2-TYPICAL REVERSE CHARACTERISTIC

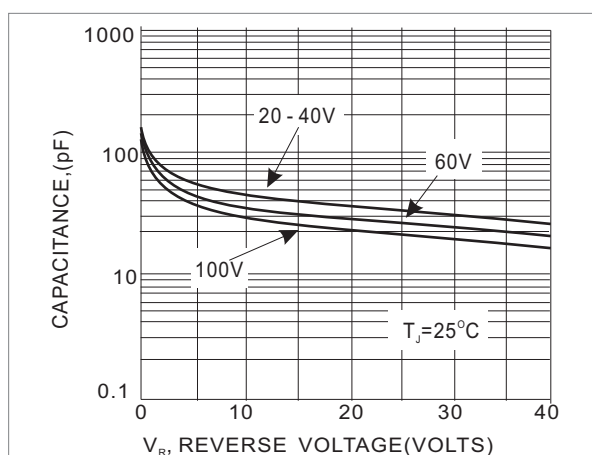


FIG. 3-TYPICAL JUNCTION CHARACTERISTIC

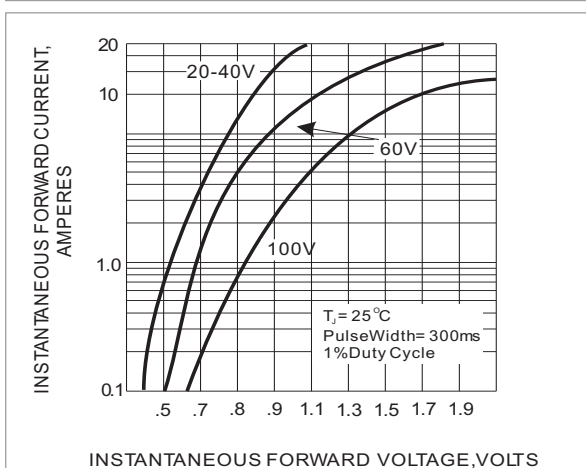
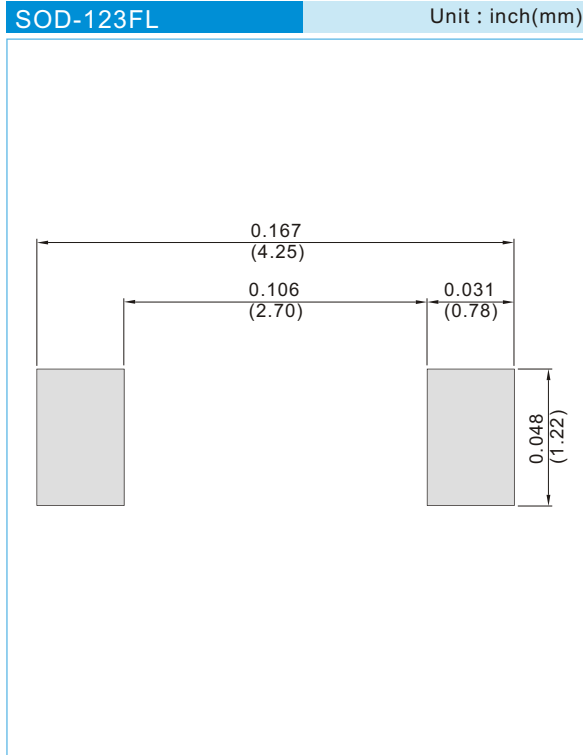


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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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

## SS1020FL~SS10100FL

Part No\_packing code\_Version

SS1020FL\_R1\_00001

SS1020FL\_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 <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)	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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