



# SS2040LL

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 40 Volts **CURRENT** 2 Amperes

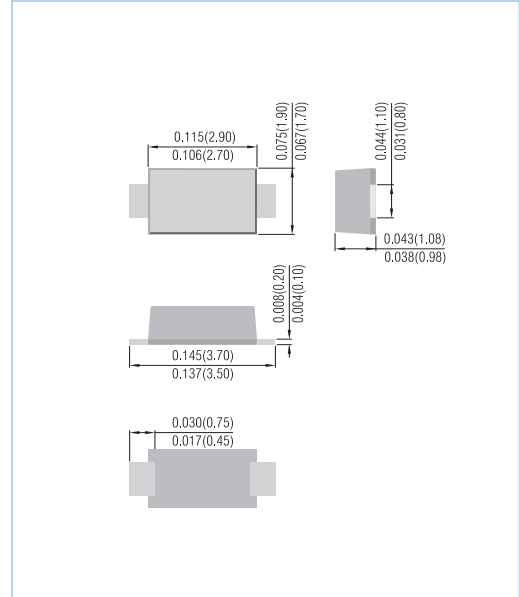
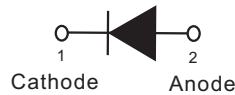
SOD-123FL Unit: inch ( mm )

### FEATURES

- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- In compliance with EU RoHS 2002/95/EC directives
- Low forward voltage
- 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
- Approx. Weight: 0.0172 grams
- Polarity : Color band cathode
- Marking : R4



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

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	$V_R$	40	V
Peak Reversr Voltage	$V_{RRM}$	40	V
Average Rectified Current	$I_{F(AV)}$	2	A
Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	$I_{FSM}$	50	A

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

PARAMETER	SYMBOL	VALUE	UNITS
Minimum Reverse Breakdown Voltage at $I_R=500\mu\text{A}$	$V_R$	40	V
Maximum Forward Voltage at $I_F=2.0\text{A}$	$V_F$	0.45	V
Reverse Leakage Current at $V_{RRM}$	$I_R$	500	$\mu\text{A}$
Typical Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	250	$^{\circ}\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-50 to +125	$^{\circ}\text{C}$

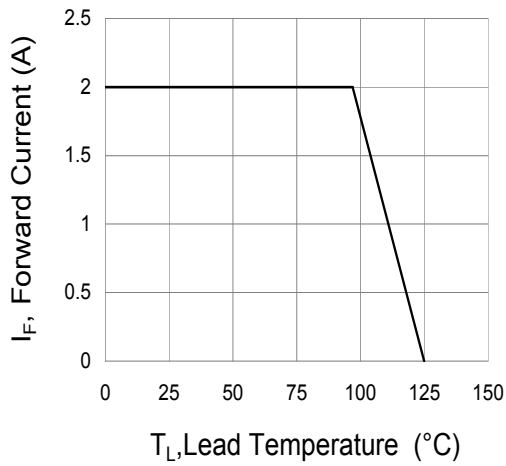
Note.1 Mounted on PCB with minimum pad layout.

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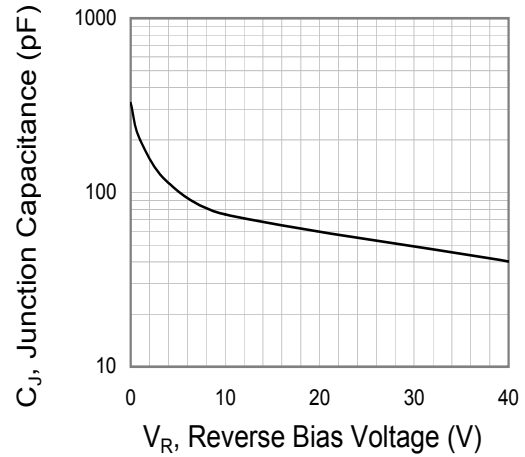


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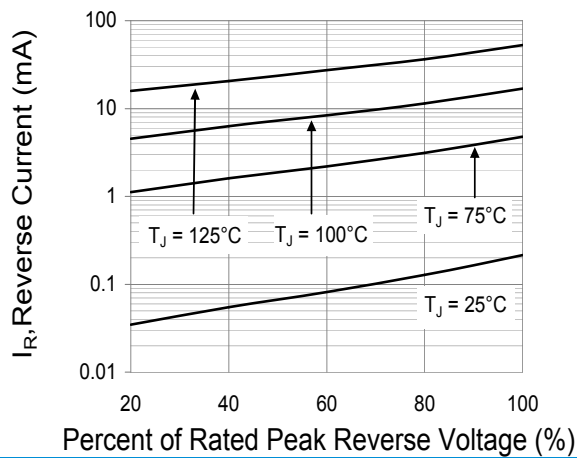
## RATING AND CHARACTERISTIC CURVES



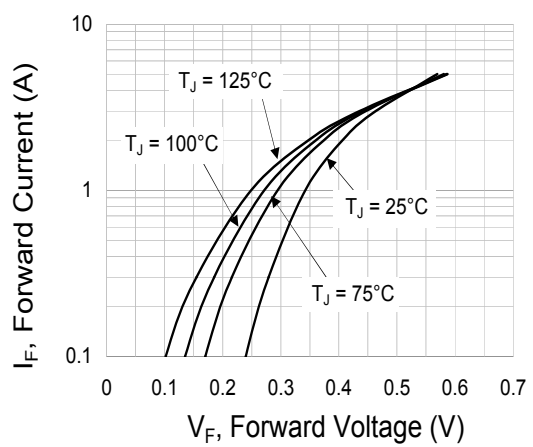
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**

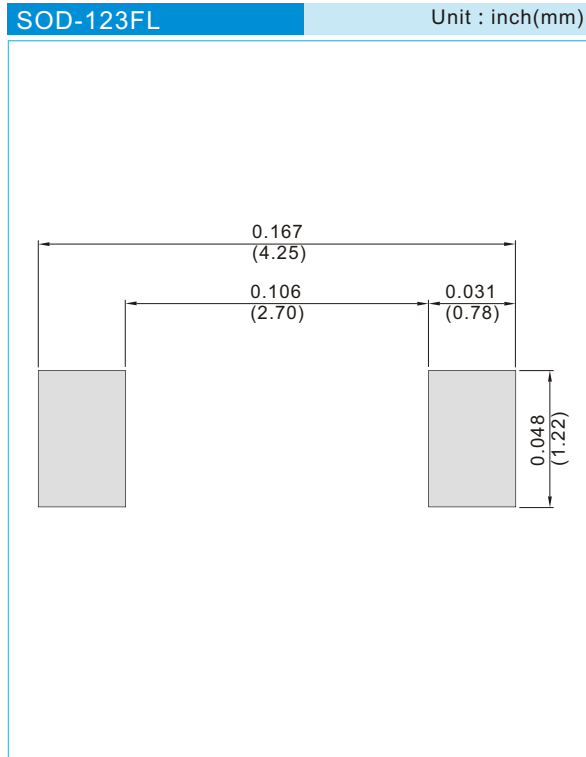


**Fig.4 Typical Forward Characteristics**



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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



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## Part No\_packing code\_Version

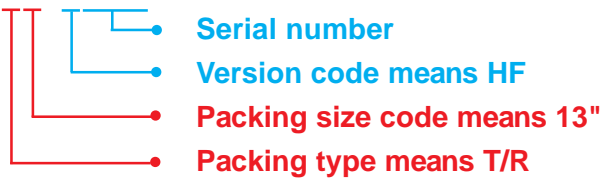
SS2040LL\_R1\_00001

SS2040LL\_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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