

SS2040LL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volt **CURRENT** 2 Ampere

FEATURES

- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Low forward voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

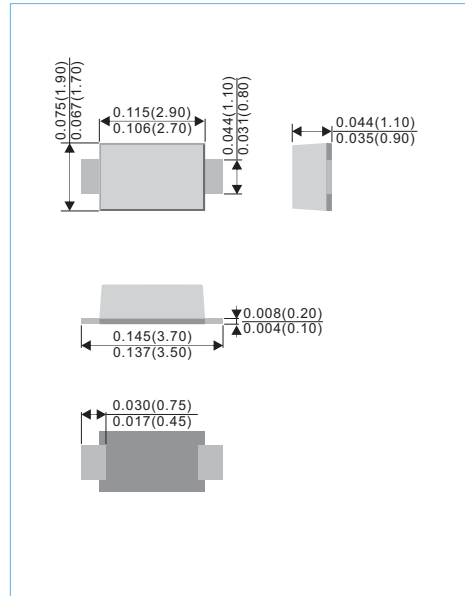
MECHANICAL DATA

- Case: SOD-123FL, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0173 grams
- Polarity: Color band denotes cathode end
- Marking: R4



SOD-123FL

Unit : inch(mm)



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	μA
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.

SS2040LL

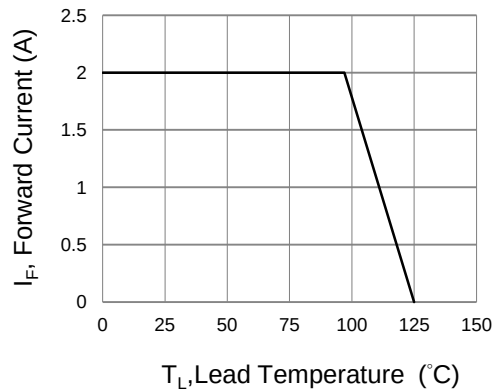


Fig.1 Forward Current Derating Curve

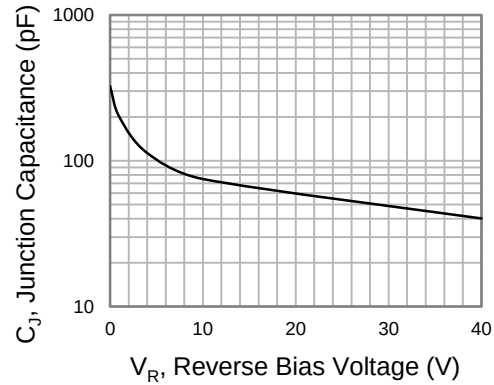


Fig.2 Typical Junction Capacitance

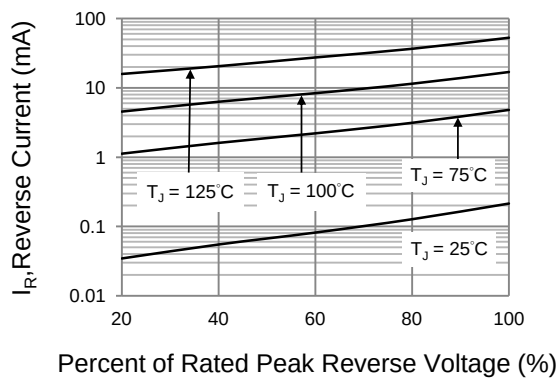


Fig.3 Typical Reverse Characteristics

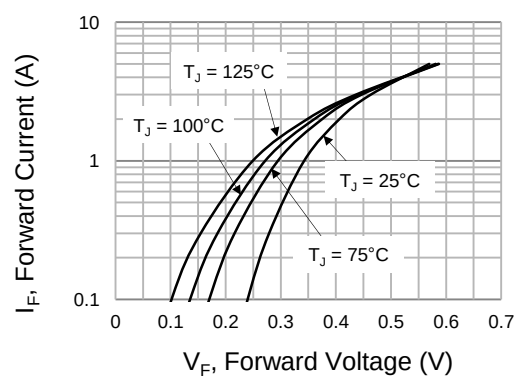


Fig.4 Typical Forward Characteristics

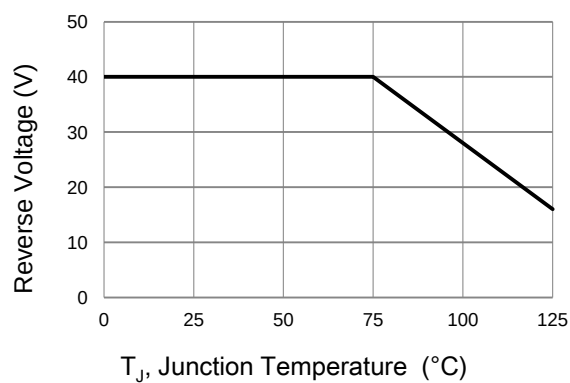


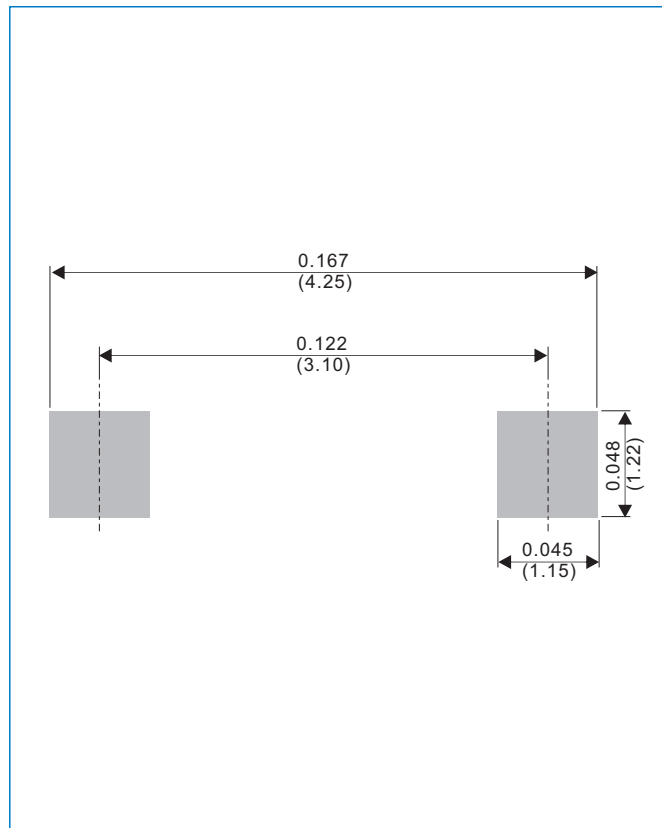
Fig.5 Operating Temperature Derating Curve

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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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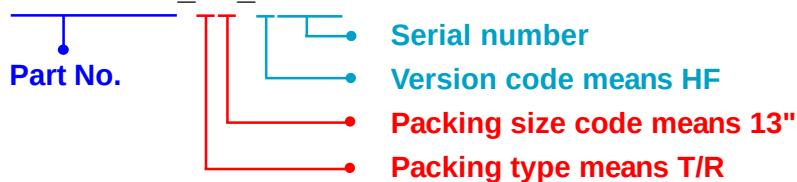
Part No_packing code_Version

SS2040LL_R1_00001

SS2040LL_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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