

SS1020FL~SS10100FL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

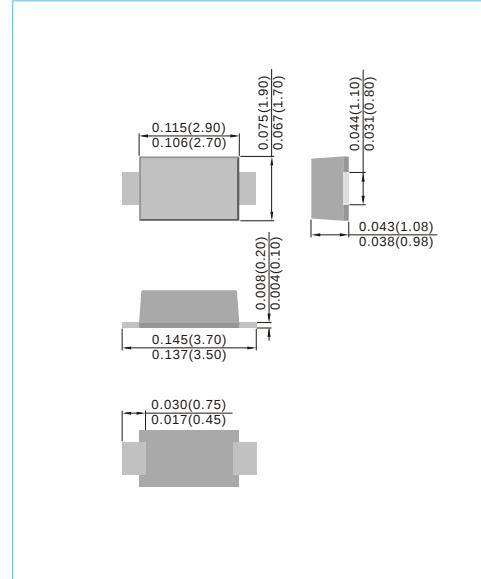
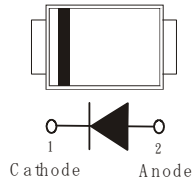
SOD-123FL Unit : inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Lead free in comply with EU RoHS 2002/95/EC 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					μA
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

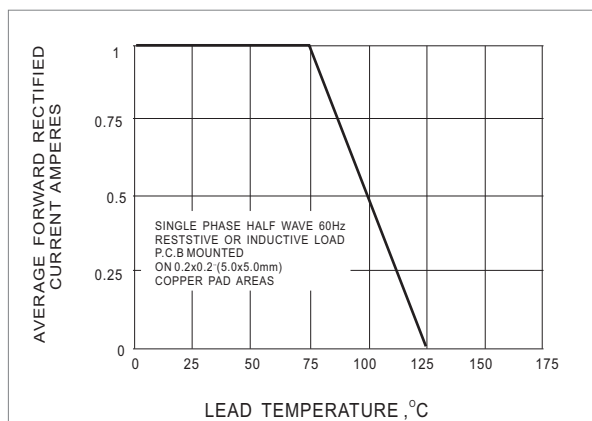


FIG. 1-FORWARD CURRENT DERATING CURVE

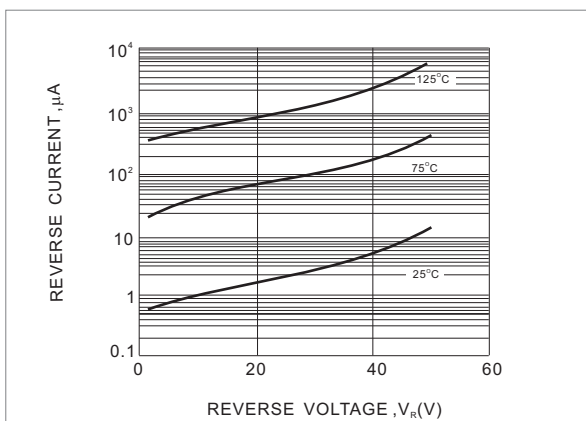


FIG. 2-TYPICAL REVERSE CHARACTERISTIC

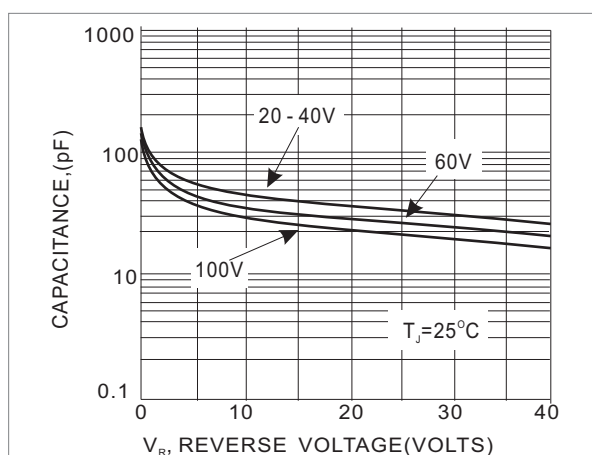


FIG. 3-TYPICAL JUNCTION CHARACTERISTIC

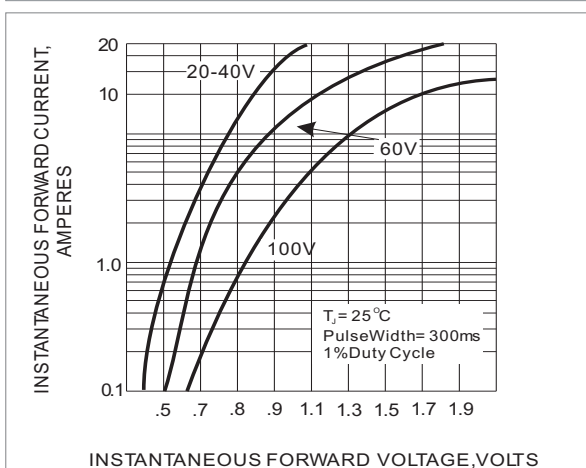
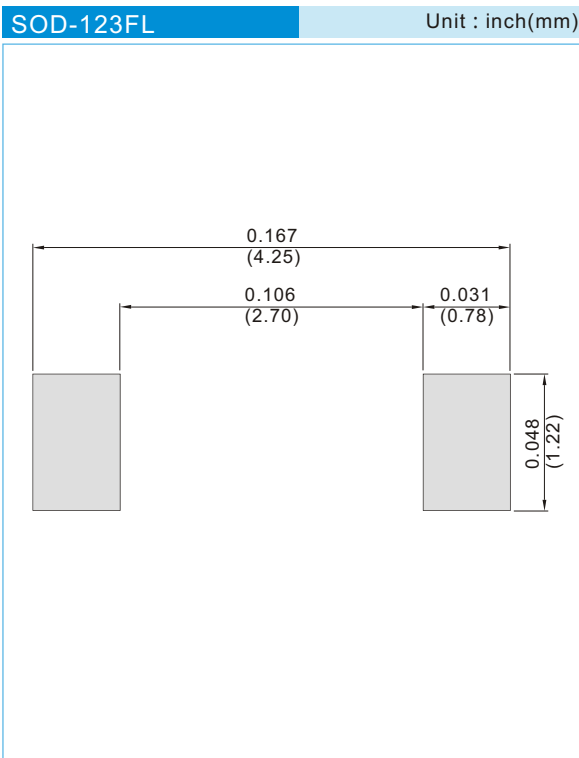


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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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

LEGAL STATEMENT

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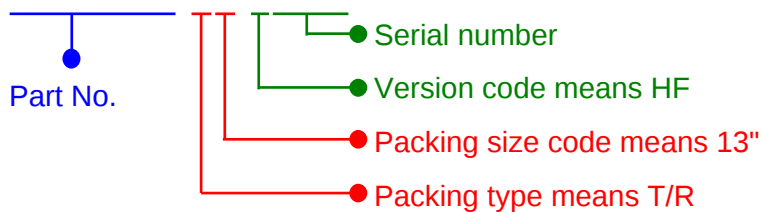
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Part No_packing code_Version

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
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			