SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere

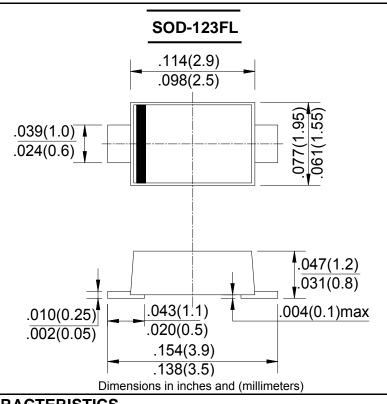
FEATURES

- Low profile space
- Ideal for automated placement
- Glass passivated chip junctions
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- ◆High temperature soldering:260 °C/10 seconds at terminals
- Component in accordance to

 RoHS 2002/95/1 and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDEC SOD-123FL molded plastic body over glass passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end
- ●Weight: 0.017gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 ℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

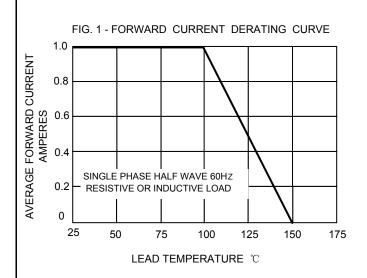
CHARACTERISTICS	SYMBOL	S1AL	S1BL	S1DL	S1GL	S1JL	S1KL	S1ML	UNIT
	MARKING	S1AL	S1BL	S1DL	S1GL	S1JL	S1KL	S1ML	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T L=100 ℃	I(AV)	1.0							Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	lfsм	25							Α
Maximum Forward Voltage at 1.0A DC	VF	1.1					V		
Maximum DC Reverse Current @Ta=25℃ at Rated DC Blocking Voltage @Ta=125℃	lR	5.0 50							μA
Thermal resistance from junction to ambient (Note1)	Rejl	35							°C/W
Typical Thermal Resistance	Rеја	150							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}\!\mathbb{C}$

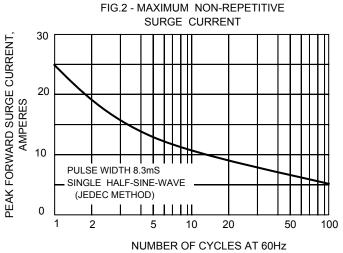
Note1: Mounted on FR-4 P.C.B. With 0.9x1.5 mm copper pad areas (≈35 µm thick)

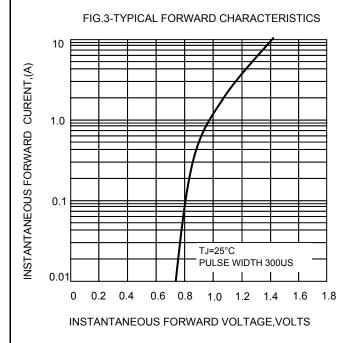
2.The typical data above is for reference only(典型值仅供参考).

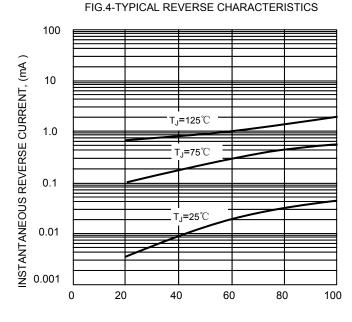
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PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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