

#### ABSOLUTE MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V <sub>R</sub>	90	V
Peak Reverse Voltage	V <sub>RRM</sub>	90	V
Average Rectified Current	I <sub>o</sub>	1	А
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	50	А
Typical Thermal Resistance, Junction to Ambient (Note 1)	R <sub>eja</sub>	180	°C/W
Operating Junction Temperature and Storage Temperature Range	T_J,T <sub>stg</sub>	-55 to +150	°C

#### ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V(BR)	lℝ=1mA	90	-	-	V
Reverse Current	l r	VR=90 V	-	-	100	μΑ
Forward Voltage	VF	l⊧=1.0A	-	0.68	0.73	V
Typical Junction Capacitance	CJ	VR=0V, f=1.0MHz	-	203	-	pF

#### NOTES:

1.Mounted on 48cm<sup>2</sup> FR-4 PCB



### RATING AND CHARACTERISTIC CURVES

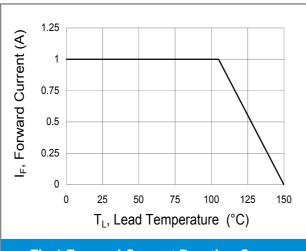
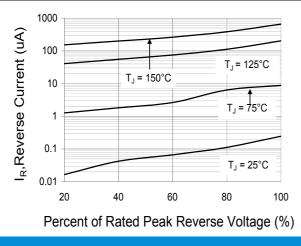
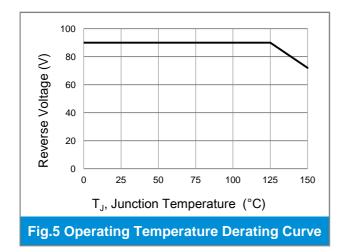
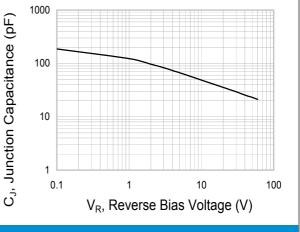


Fig.1 Forward Current Derating Curve

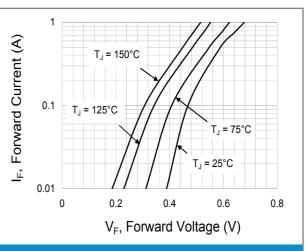


### Fig.3 Typical Reverse Characteristics





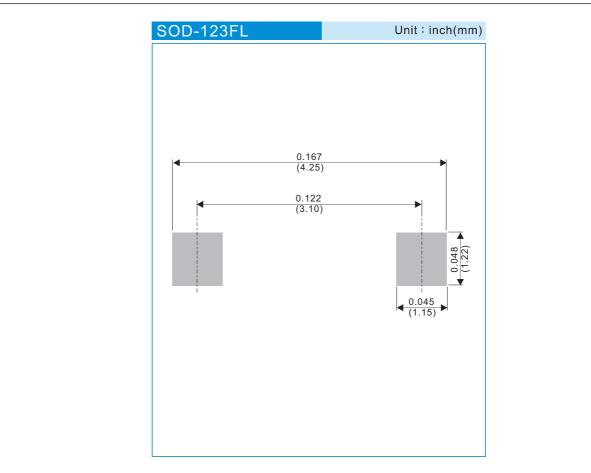
**Fig.2 Typical Junction Capacitance** 



**Fig.4 Typical Forward Characteristics** 



#### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel T/R - 3K per 7" plastic Reel 



### Part No\_packing code\_Version

SS1090VFL\_R1\_00001 SS1090VFL\_R2\_00001

### For example :

RB500V-40\_R2\_00001

Part No.

**Serial number** 

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- 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)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	т	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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