



# SX34LF

## ULTRA LOW VF SCHOTTKY RECTIFIER

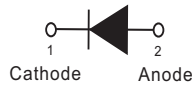
**VOLTAGE** 40 Volt **CURRENT** 3 Ampere

### FEATURES

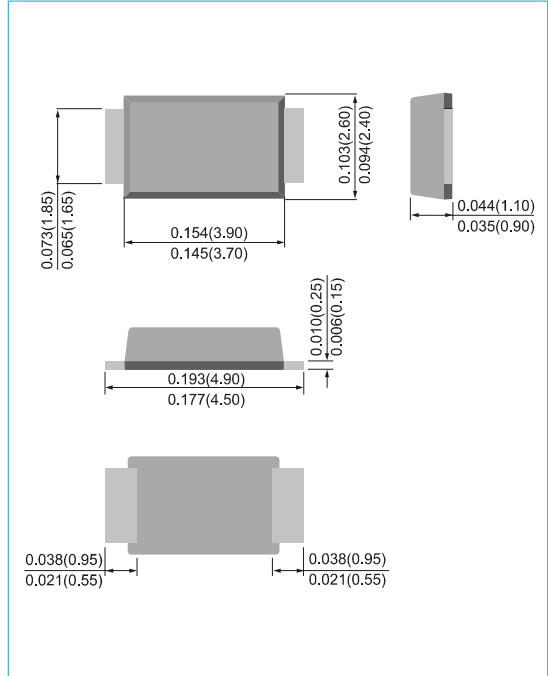
- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case : SMAF Molded Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Standard packaging : 12mm tape (EIA-481)
- Weight : 0.0011 ounces, 0.0328 grams
- Marking : Part number



### SMAF Unit : inch(mm)



### MAXIMUM RATINGS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	V
Maximum DC Blocking Voltage	V <sub>R</sub>	40	V
Maximum Average Rectified Output Current	I <sub>F(AV)</sub>	3	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	100	A
Typical Thermal Resistance	R <sub>θJC</sub> R <sub>θJA</sub>	20 150	°C/W
Operating Junction Temperature Range And Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150	°C

NOTES:1.Mounted on 48cm<sup>2</sup> FR-4 PCB Board.  
2.Mounted on a FR4 PCB, single-sided copper, mini pad.



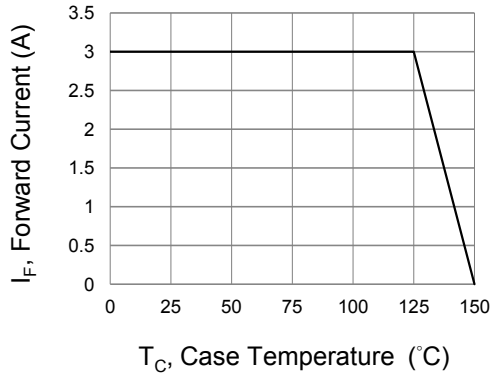
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## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

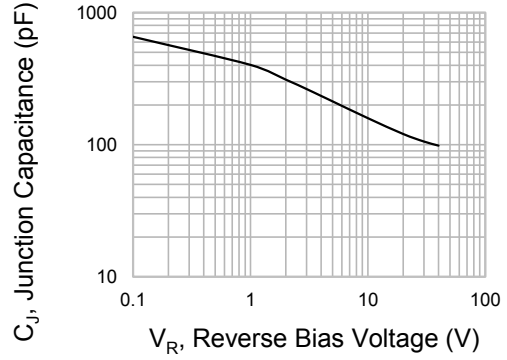
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Breakdown voltage	V <sub>BR</sub>	I <sub>R</sub> =1mA	40	-	-	V	
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =1A I <sub>F</sub> =3A	T <sub>J</sub> =25°C	- -	0.37 0.44	- 0.49	V
		I <sub>F</sub> =1A I <sub>F</sub> =3A	T <sub>J</sub> =125°C	- -	0.25 0.35	- -	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =32V		-	12	-	μA
		V <sub>R</sub> =40V	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	- -	- 15	100 -	μA mA



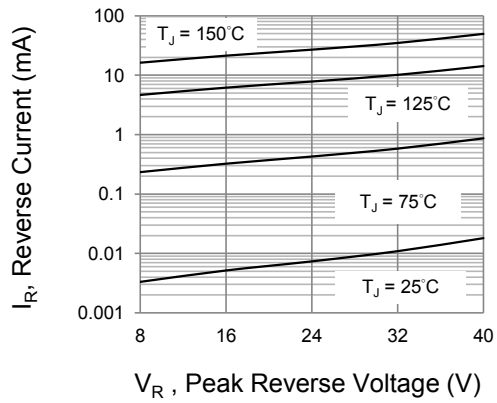
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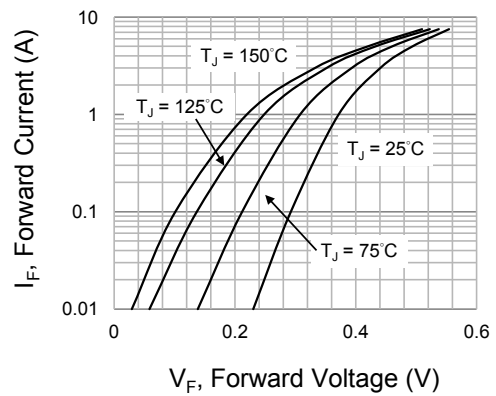
**Fig.1 Forward Current Derating Curve**



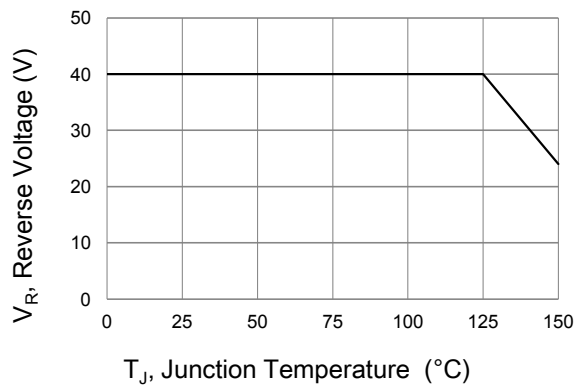
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**

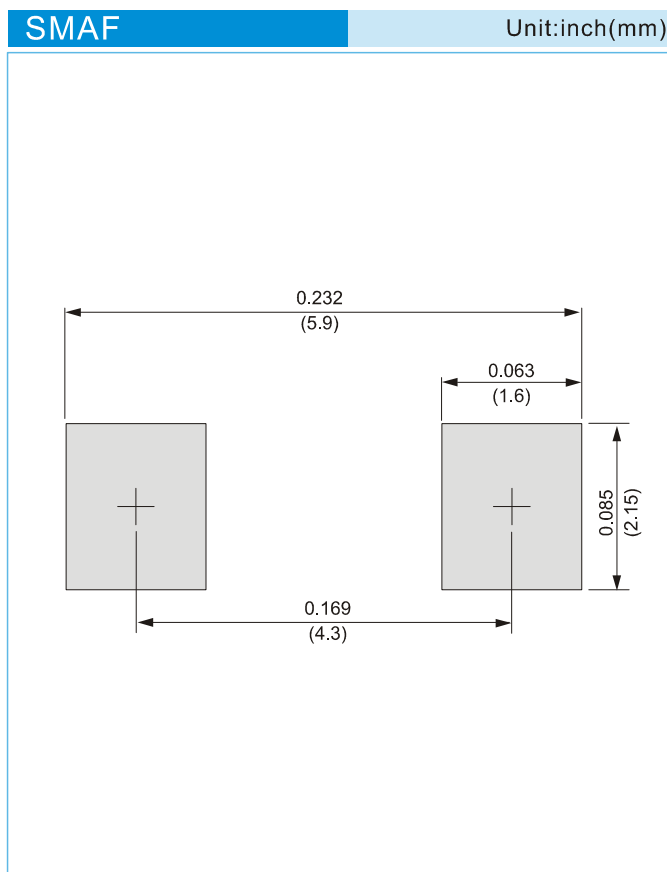


**Fig.5 Operating Temperature Derating Curve**



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

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



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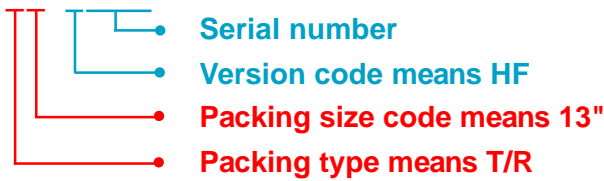
Part No\_packing code\_Version

SX34LF\_R2\_00001

For example :

RB500V-40\_R2\_00001

Part No.



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)	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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