



# SR25L

## LOW VF SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 50 Volts **CURRENT** 2.0 Amperes

### FEATURES

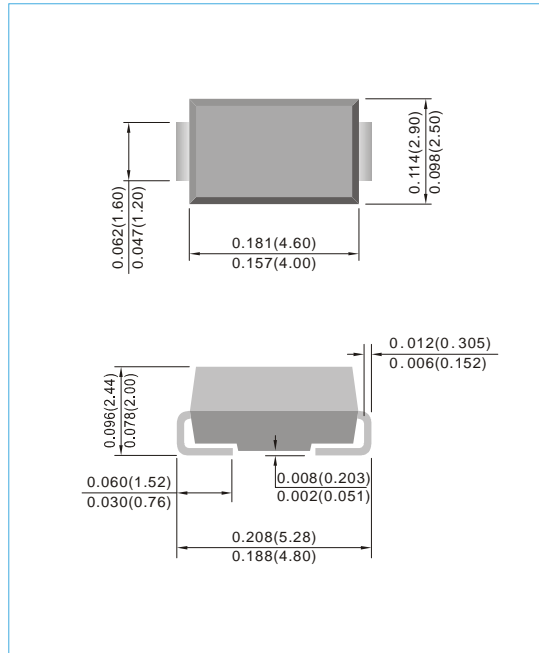
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.002 ounce, 0.067 gram

### SMA / DO-214AC

Unit : inch(mm)



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	V
Maximum rms voltage	V <sub>RMS</sub>	35	V
Maximum dc blocking voltage	V <sub>DC</sub>	50	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	2	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50	A
Typical Thermal Resistance (Note 1)	R <sub>θJL</sub>	20	°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to + 150	°C
Storage temperature range	T <sub>STG</sub>	-55 to + 150	°C

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

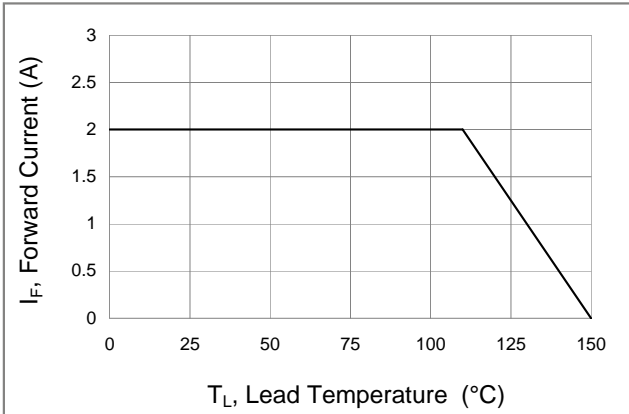
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V <sub>BR</sub>	I <sub>R</sub> =1mA	50	-	-	V
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =1A I <sub>F</sub> =2A T <sub>A</sub> =25°C	-	0.43	-	V
		I <sub>F</sub> =1A I <sub>F</sub> =2A T <sub>A</sub> =125°C	-	0.34	-	V
Reverse current	I <sub>R</sub>	T <sub>A</sub> =25°C	-	-	100	μA
		T <sub>A</sub> =125°C	-	-	20	mA

NOTES:

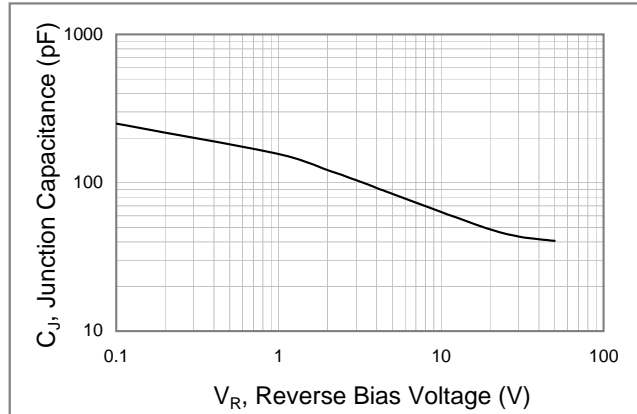
1. Mounted on heatsink (5cm x 5cm x 2pec) copper and areas.



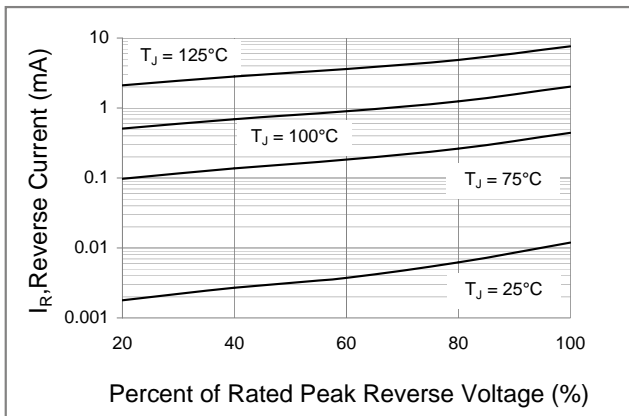
**SR25L**



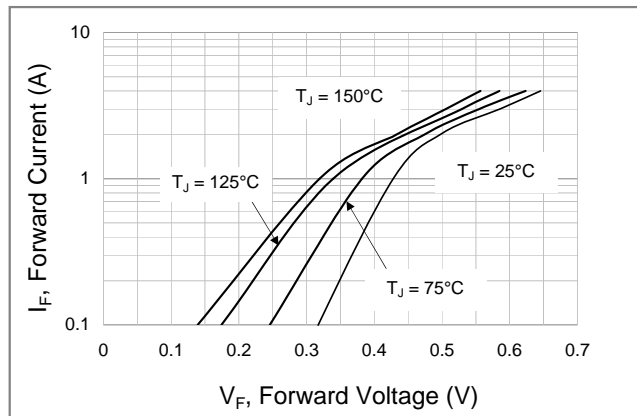
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**

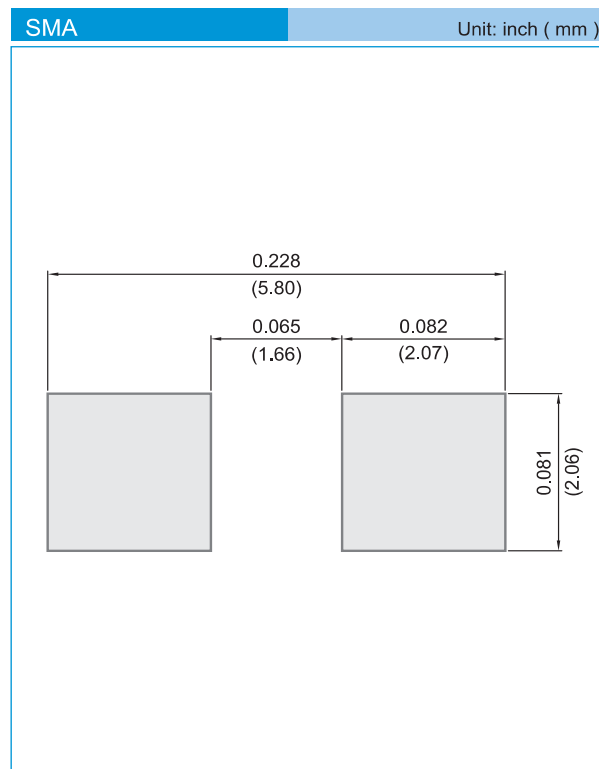


**Fig.4 Typical Forward Characteristics**



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information
  - T/R - 7.5K per 13" plastic Reel
  - T/R - 1.8Kper 7" plastic Reel

## LEGAL STATEMENT

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