



SR25L

LOW VF SCHOTTKY BARRIER RECTIFIER

VOLTAGE 50 Volts **CURRENT** 2.0 Amperes

FEATURES

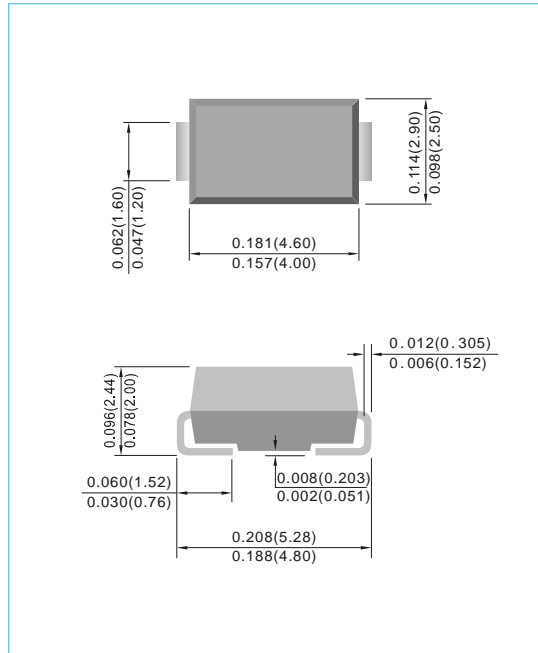
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high 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_A=25°C unless otherwise noted)

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

ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I _R =1mA	50	-	-	V
Instantaneous forward voltage	V _F	I _F =1A I _F =2A T _A =25°C	-	0.43	-	V
		I _F =1A I _F =2A T _A =125°C	-	0.34	-	V
Reverse current	I _R	T _A =25°C	-	-	100	μA
		T _A =125°C	-	-	20	mA

NOTES:

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



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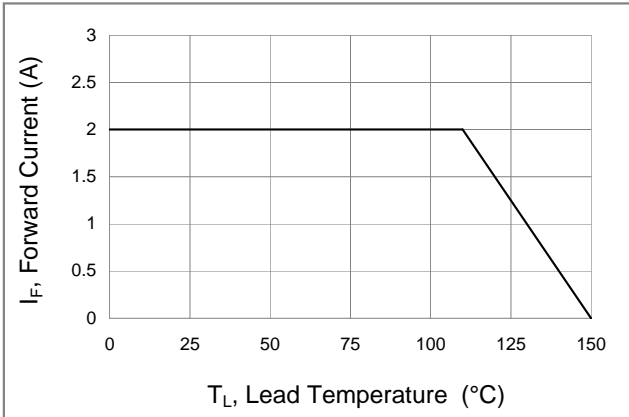


Fig.1 Forward Current Derating Curve

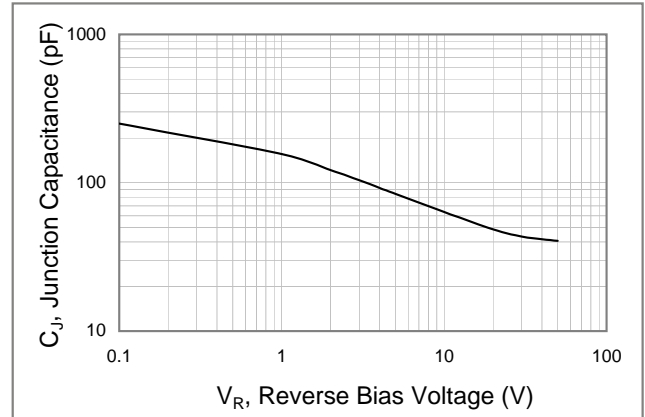


Fig.2 Typical Junction Capacitance

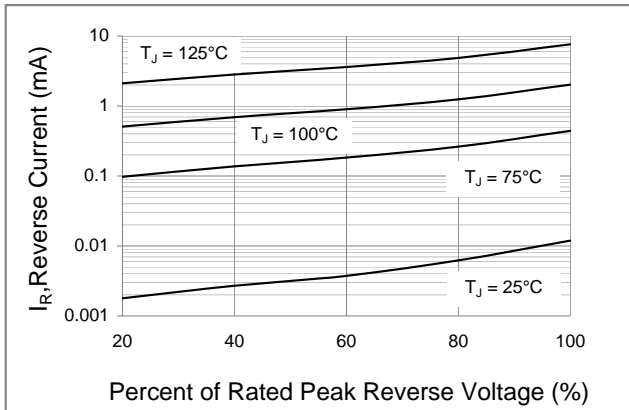


Fig.3 Typical Reverse Characteristics

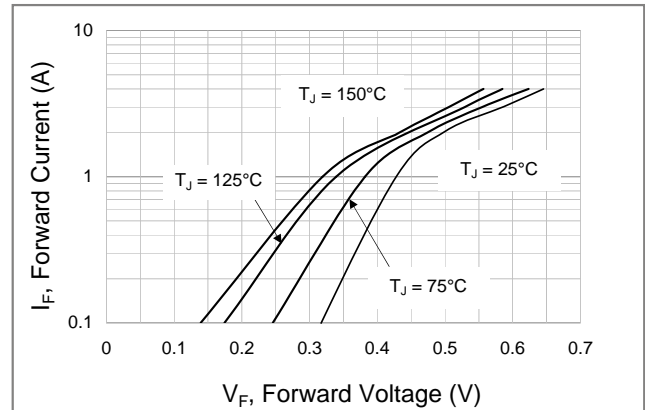
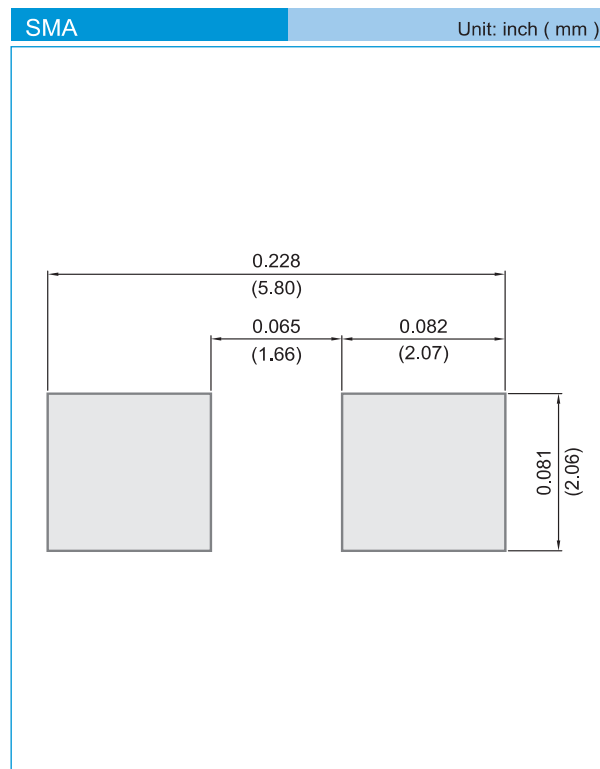


Fig.4 Typical Forward Characteristics



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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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