



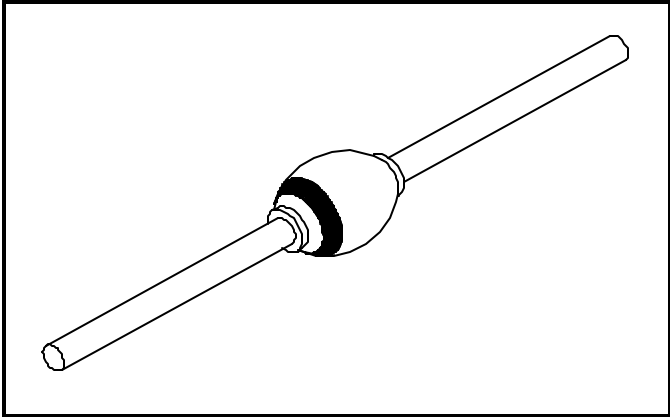
**PRELIMINARY**

**Solid State Devices, Inc.**

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**SDRS614LL**

**250 mA**  
**2,200 VOLTS**  
**FAST RECOVERY**  
**HIGH VOLTAGE RECTIFIER**



**Designer's Data Sheet**

**FEATURES:**

- **Fast Reverse Recovery: 300 nsec Maximum**
- **PIV 2,200 Volts**
- **Hermetically Sealed**
- **Void-Free Construction**
- **Metallurgically Bonded**
- **175°C Maximum Operating Temperature**
- **Miniature Package**
- **TX, TXV, and Space Level Screening Available**
- **Lead Free Termination Available, Contact Factory**

**ELECTRICAL CHARACTERISTICS <sup>1/ 2/ 3/ 4/</sup>**

Part Number	Peak Inverse Voltage	Average Rectified Current	Reverse <sup>5/</sup> Recovery Time	Maximum Junction Capacitance	Maximum Surge Current (1 Cycle)	Typical Thermal Impedance	Maximum Forward Voltage		Maximum Reverse Current	
Symbol	PIV	I <sub>O</sub>	t <sub>rr</sub>	C <sub>J</sub>	I <sub>FSM</sub>	θ <sub>JL</sub>	V <sub>F</sub>		I <sub>R</sub> @ 80% of PIV	
Units	Volts	mA	nsec	pF	Amps	°C/W	Volts		µA	
Conditions			Max	V <sub>R</sub> = 100V, f <sub>T</sub> = 1MHz		L = ¼"	60mA	250mA	25°C	100°C
	2,200	250	300	5.0	20	45	1.7	2.2	1.0	30

**NOTES:**

- 1/ Unless Otherwise Specified, All Electrical Characteristics @25°C.
- 2/ Operating and testing over 10,000 V/inch may require encapsulation or immersion in suitable dielectric material.
- 3/ Maximum lead temperature for soldering is 250°C, 3/8" from case for 5 sec. maximum.
- 4/ Operating and storage temperature: -65°C to +175°C.
- 5/ Recovery Conditions I<sub>F</sub> = 1/2 A, I<sub>R</sub> = 1.0 A rec. to 1/4 A.

PACKAGE OUTLINE: AXIAL RECTIFIER		DIMENSIONS		
		CODE	MIN	MAX
		A	---	.135"
		B	---	.170"
		C	.028"	.032"
		D	1.0"	---