



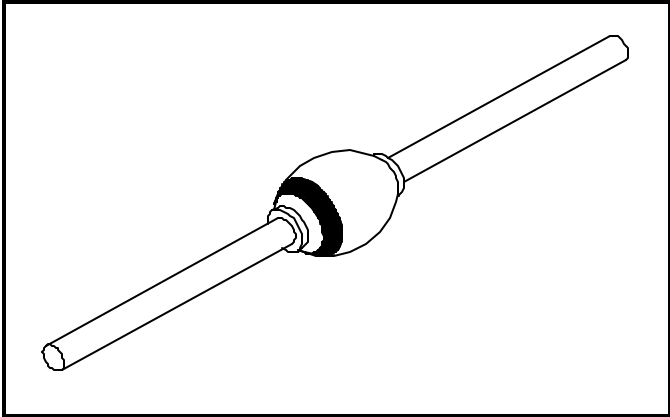
PRELIMINARY

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 ^{1/ 2/ 3/ 4/}

| Part Number | Peak Inverse Voltage | Average Rectified Current | Reverse ^{5/} Recovery Time | Maximum Junction Capacitance | Maximum Surge Current (1 Cycle) | Typical Thermal Impedance | Maximum Forward Voltage | | Maximum Reverse Current | |
|-------------|----------------------|---------------------------|-------------------------------------|--|---------------------------------|---------------------------|-------------------------|-------|-----------------------------|-------|
| Symbol | PIV | I _O | t _{rr} | C _J | I _{FSM} | θ _{JL} | V _F | | I _R @ 80% of PIV | |
| Units | Volts | mA | nsec | pF | Amps | °C/W | Volts | | µA | |
| Conditions | | | Max | V _R = 100V, f _T = 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_F = 1/2 A, I_R = 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" | --- |