Solid State Devices, Inc.
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Phone: (562) 404-4474 * Fax: (562) 404-1773
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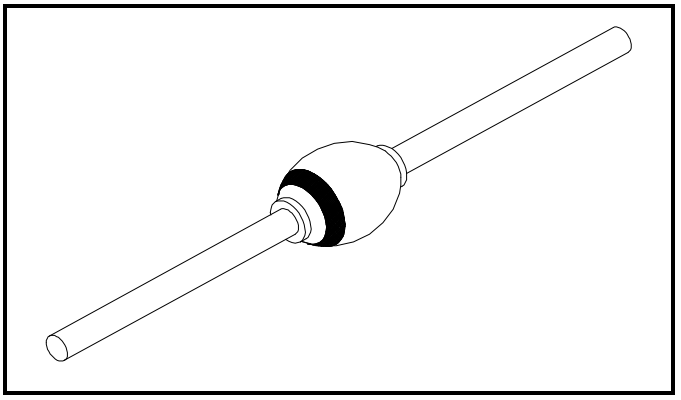
SDRS614

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}**	**$?_{JL}$**	**V_F**		**I_R @ 80% of PIV**	
Units	**Volts**	**mA**	**nsec**	**pF**	**Amps**	**°C/W**	**Volts**		**µA**	
Conditions			Max	V_R = 100V, f = 1MHz		L = ¼"	60mA	250mA	25°C	100°C
	2,200	250	300	5.0	20	45	1.7	2.2	5.0	150

NOTES:

1/ Unless Otherwise Specified, All Electrical Characteristics @25°C.

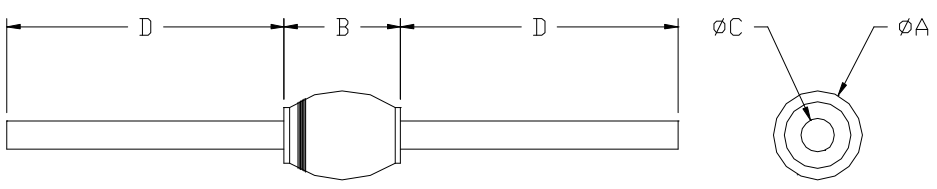
2/ Operating and testing over 10,000 V/inch may require encapsulation or immersion in suitable dielectric material.

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 = 0.5 A, I_R = 1.0 A rec. to 0.25 A.

PACKAGE OUTLINE: AXIAL RECTIFIER



DIMENSIONS		
CODE	MIN	MAX
A	---	.135"
B	---	.170"
C	.028"	.032"
D	1.0"	---

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	**DATA SHEET #: RC0098C**	**DOC**