



Solid State Devices, Inc.

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SDAD101 UF Series

**2,500 to 15,000 VOLTS
 ULTRA FAST RECOVERY
 STACKABLE HIGH VOLTAGE RECTIFIER**

Designer's Data Sheet

Part Number/Ordering Information ^{1/}
 SDAD10 1

+ Screening ^{2/}
 ___ = Not Screened
 TX = TX Level
 TXV = TXV
 S = S Level

+ Reverse Recovery Time
 UF = Ultra Fast Recovery Time

+ Voltage 2.5 = 2.5kV, 5 = 5kV,
 7.5 = 7.5kV, 10 = 10kV, and 15 = 15kV

+ Power Rating (See Below)

+ Package Size = 1 Inch Diameter

- FEATURES:**
- Stackable to 160kV
 - PIV 2.5kV to 15kV
 - Ultra Fast Reverse Recovery Time
 - Only Hermetically Sealed Rectifiers Used
 - Controlled Avalanche Rated
 - Modular Design for Easy Stacking
 - Storage and Operating Temps -65 °C to +150 °C
 - Available in Standard, Fast and Hyper Fast Versions
 - TX, TXV, and S-Level Screening Available ^{2/}

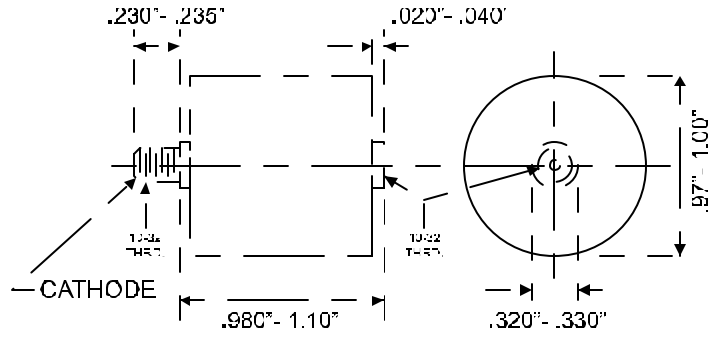
ELECTRICAL CHARACTERISTICS ^{3/}

| Part Number | Peak Inverse Voltage | Reverse Recovery Time ^{5/} | Average DC Output Current Tc = Case Temperature ^{4/} | | Surge Non-repetitive | Maximum Forward Voltage Drop | | Maximum Leakage Current @PIV |
|------------------|----------------------|-------------------------------------|--|-------|----------------------|------------------------------|--------|------------------------------|
| | PIV (KV) | Max (ns) | If(avg) | | Ifsm | Vf (V) | If (A) | Ir (uA) |
| | 25 °C | 25 °C | 75 °C | 50 °C | 100 °C | 25 °C | | 25 °C |
| SDAD101 H 2.5 UF | 2.5 | 70 | 1.62 | 3.60 | 125 | 3.96 | 1.62 | 20 |
| SDAD101 H 5.0 UF | 5.0 | 70 | 0.95 | 2.34 | 125 | 6.71 | 0.95 | 20 |
| SDAD101 H 7.5 UF | 7.5 | 70 | 0.81 | 1.80 | 125 | 9.90 | 0.81 | 20 |
| SDAD101 H 10 UF | 10 | 70 | 0.68 | 1.35 | 125 | 13.0 | 0.68 | 20 |
| SDAD101 H 15 UF | 15 | 70 | 0.54 | 0.95 | 25 | 18.9 | 0.54 | 20 |

SDAD101 Package:

NOTES:

- 1/ For Ordering Information, Price, Curves, and Availability- Contact Factory.
- 2/ Screened to MIL-PRF-19500.
- 3/ Unless Otherwise Specified, All Electrical Characteristics @25°C.
- 4/ Tc = 50 °C typical operation in oil.
Tc = 75 °C is typical ambient Ta = 25 °C unheatsunk.
- 5/ Recovery Conditions: I_F = 0.5 Amp, I_R = 1.0 Amp rec. to .25 Amp.



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

DATA SHEET #: RA0085A

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