Solid State Devices, Inc.
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SDAD103 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 3 ___ ___ ___ ___

- **Screening** [2/]
  - __ = Not Screened
  - TX = TX Level
  - TXV = TXV Level
  - 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** = 3 Inches Diameter

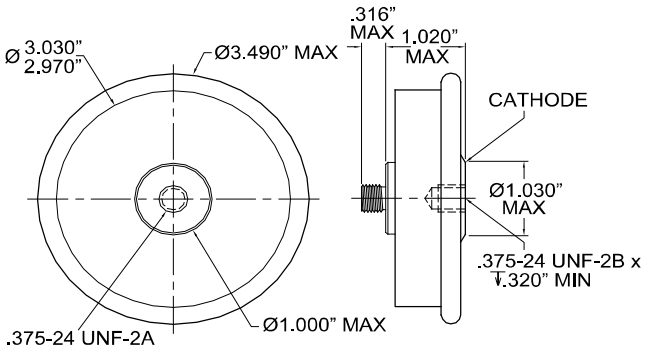
FEATURES:

- **Stackable to 600 kV+**
- **PIV 2.5kV to 15kV**
- **High Current Ratings**
- **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 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 4/ Tc = Case Temperature			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	60 °C	100 °C	25 °C		25 °C
SDAD103 H 2.5 UF	2.5	70	9.00	14.4	11.2	200	3.90	7.20	30
SDAD103 H 5.0 UF	5.0	70	6.75	10.8	8.46	200	7.60	5.40	30
SDAD103 H 7.5 UF	7.5	70	4.50	7.20	5.58	200	10.10	3.60	20
SDAD103 H 10 UF	10	70	3.15	4.50	4.00	125	13.85	2.25	10
SDAD103 H 15 UF	15	70	2.14	3.00	2.65	125	19.2	1.44	10

SDAD103 Package:



NOTES:

1/ For ordering information, price, curves, and availability- contact factory.
2/ Screening based on MIL-PRF-19500. Screening flows available on request.
3/ Unless Otherwise Specified, All Electrical Characteristics @25ºC.
4/ Tc = 50 ºC typical operation in oil.
Tc = 75 ºC is typical ambient Ta = 25 ºC unheatsunk.
Tc = 60 ºC typical operation with extender plates in air.
5/ Recovery Conditions: I_F = 0.5 Amp, I_R = 1.0 Amp rec. to .25 Amp.