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

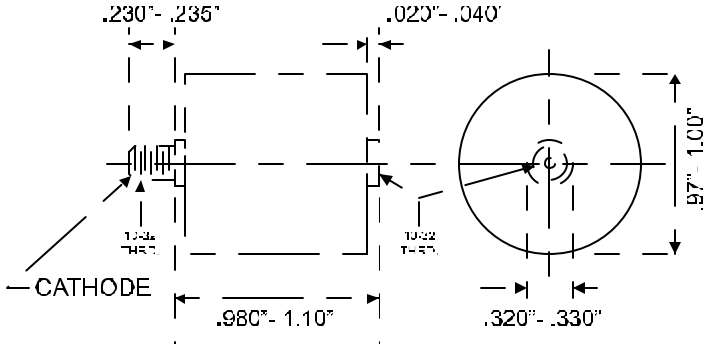
FEATURES:

- **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 @25ºC.
4/ Tc = 50 ºC typical operation in oil.
Tc = 75 ºC is typical ambient Ta = 25 ºC unheatsunk.
5/ Recovery Conditions: I_F = 0.5 Amp, I_R = 1.0 Amp rec. to .25 Amp.