



Solid State Devices, Inc.

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**SDAD101M2.5HF thru
SDAD101M13HF**

**30 nsec
2,500 to 13,000 Volts
Hyper 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 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
13 = 13kV

Current Rating = M (see below)

Package Size = 1 Inch Diameter

FEATURES:

- Stackable to 600 kV+
- PIV: 2.5 kV to 13 kV
- Hyper Fast Reverse Recovery Time: 30 nsec
- Hermetically Sealed Internal Discretes
- Controlled Avalanche Rated
- Modular Design for Easy Stacking
- Storage and Operating Temps -65°C to +150°C
- Available in Standard, Fast and Ultra Fast Versions
- TX, TXV, and S-Level Screening Available ^{2/}

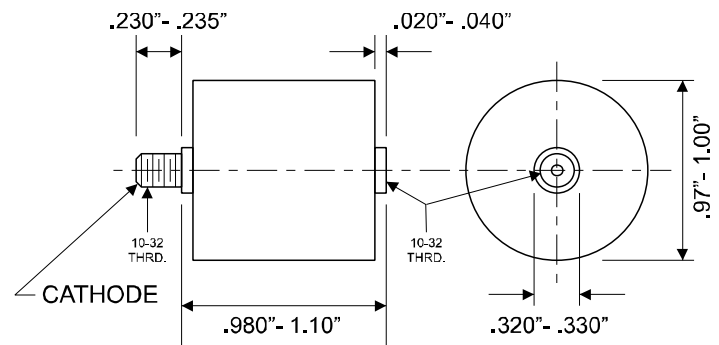
ELECTRICAL CHARACTERISTICS ^{3/}

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	100°C
SDAD101M2.5HF	2.5	30	0.80	1.00	25	8.0	1.00	20	250
SDAD101M5.0HF	5.0	30	0.80	1.00	25	14.0	1.00	20	250
SDAD101M7.5HF	7.5	30	0.80	1.00	25	20.0	1.00	20	250
SDAD101M10HF	10	30	0.72	0.90	25	26.0	0.90	20	250
SDAD101M13HF	13	30	0.56	0.70	25	34.0	0.70	20	250

SDAD101 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 @25°C.
- ^{4/} Tc = 50 °C typical operation in oil.
Tc = 75 °C is typical ambient Ta = 25 °C.
- ^{5/} Recovery Conditions: If = 0.5 Amp, Ir = 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 #: RA0102B

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