

Solid State Devices, Inc.

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Designer's Data Sheet

Part Number/Ordering Information ¹/

SDAD10 2

^Ī Screening [⊉]

= Not Screened TX = TX Level TXV = TXV Level

S = S Level

Reverse Recovery Time

UF = Ultra Fast Recovery Time

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

Power Rating (See Below)

Package Size = 2 Inches Diameter

SDAD102 UF Series

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

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 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 <u>5</u> /	Average DC Output Current 4/ Tc = Case Temperature			Surge Non-repetitive	Maximum Forward Voltage Drop		Maximum Leakage Current @PIV
	PIV (KV)	Max (ns)	lf(avg)			lfsm	Vf (V)	If (A)	Ir (uA)
	25 °C	25 °C	75 °C	50 °C	60 °C	100 °C	25 °C		25 °C
SDAD102 H 2.5 UF	2.5	70	9.00	10.6	10.0	200	4.35	6.3	30
SDAD102 H 5.0 UF	5.0	70	6.60	8.80	8.00	200	7.92	4.5	30
SDAD102 H 7.5 UF	7.5	70	2.00	3.00	2.50	125	10.9	1.5	15
SDAD102 H 10 UF	10	70	1.50	2.00	1.80	100	13.6	1.2	15
SDAD102 H 15 UF	15	70	1.00	1.40	1.20	100	18.9	0.7	15

SDAD102 Package:

NOTES:

- 1/2 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.
- $\underline{4}$ / Tc = 50 °C typical operation in oil.
 - Tc = 75 °C is typical ambient Ta = 25 °C unheatsunk.
 - Tc = 60 °C typical operation with extender plates in air.
- 5/ Recovery Conditions: $I_F = 0.5$ Amp, $I_R = 1.0$ Amp rec. to .25 Amp.

