



180 Lafayette Road
 North Hampton, NH 03862-2448
 PH: 603-964-3165
 FX: 603-964-3168
 WWW.PDEELECTRONICS.COM

Rectifier Assemblies

High Voltage Stacks
 Standard Recovery
 SDAD101 Series

FEATURES

- Controlled Avalanche Characteristics
- Glass-Passivated Diodes
- High Forward and Reverse Surge Capability
- Transfer Molded for Void less Construction
- Modular for Easy Stacking
- PIV: from 2.5kV to 15kV
- Recovery Times: to 5000 nS

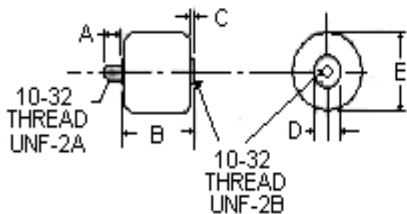
DESCRIPTION

These assemblies uniquely combine a versatile stackable design with all the requirements for reliable high voltage operation. All modules are suitable for bridge or series operations.

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage.....2.5kV to 15kV
 Maximum Average D.C. Output Current.....See Electrical Specifications
 Non-Repetitive Sinusoidal Surge (8.3mS).....See Electrical Specifications
 Operating and Storage Temperature Range.....-65°C to +150°C
 Thermal Resistance Junction to Ambient.....50°C/W

MECHANICAL SPECIFICATIONS



INCHES	
A	.230-.235
B	.980-1.10
C	.020-.040
D	.320-.330
E	.970-1.00

MARKING: TYPE NUMBER MARKED ON UNIT
 POLARITY: CATHODE CONNECTED TO STUD





180 Lafayette Road
 North Hampton, NH 03862-2448
 PH: 603-964-3165
 FX: 603-964-3168
 WWW.PDEELECTRONICS.COM

Rectifier Assemblies
 High Voltage Stacks
 Standard Recovery
 SDAD101 Series

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)					MAXIMUM RATINGS		
Type	PIV	Maximum Forward Voltage Drop	Maximum Leakage Current @ PIV	Maximum Reverse Recovery Time **	Maximum Average D.C. Output Current		Non-Repetitive Sinusoidal Surge (8.3mS)
					T _A =75°C AIR	T _O =50°C OIL	T _A = 100° C
					Amps	Amps	Amps
SDAD101S5.0	5.0	9V @ 0.6A	5	5000	0.60	1.10	25
SDAD101S7.5	7.5	13V @ 0.5A	5	5000	0.45	0.91	25
SDAD101S10	10	17V @ 0.3A	5	5000	0.35	0.71	25
SDAD101S15	15	25V @ 0.2A	5	5000	0.25	0.51	25
SDAD101B2.5	2.5	5V @ 1.1A	10	5000	1.10	2.30	80
SDAD101B5.0	5.0	9V @ 0.7A	10	5000	0.68	1.50	80
SDAD101B7.5	7.5	13V @ 0.5A	10	5000	0.53	1.20	80
SDAD101B10	10	17V @ 0.4A	10	5000	0.43	1.00	80
SDAD101H2.5	2.5	3.3V @ 2.2A	10	5000	2.20	4.60	150
SDAD101H5.0	5.0	5.5V @ 1.3A	10	5000	1.36	3.00	150
SDAD101H7.5	7.5	8.2V @ 1.0A	10	5000	1.06	2.40	150
SDAD101H10	10	10.7V @ 0.8A	10	5000	0.86	2.00	150
SDAD101H15	15	15.7V @ 0.5A	10	5000	0.50	1.00	30

**Measured on discrete devices prior to assembly and tested in a reverse recovery circuit switching from .5A forward current to 1A reverse current, recovery to .25A