

HV Diodes

Solutions for High Voltage Applications

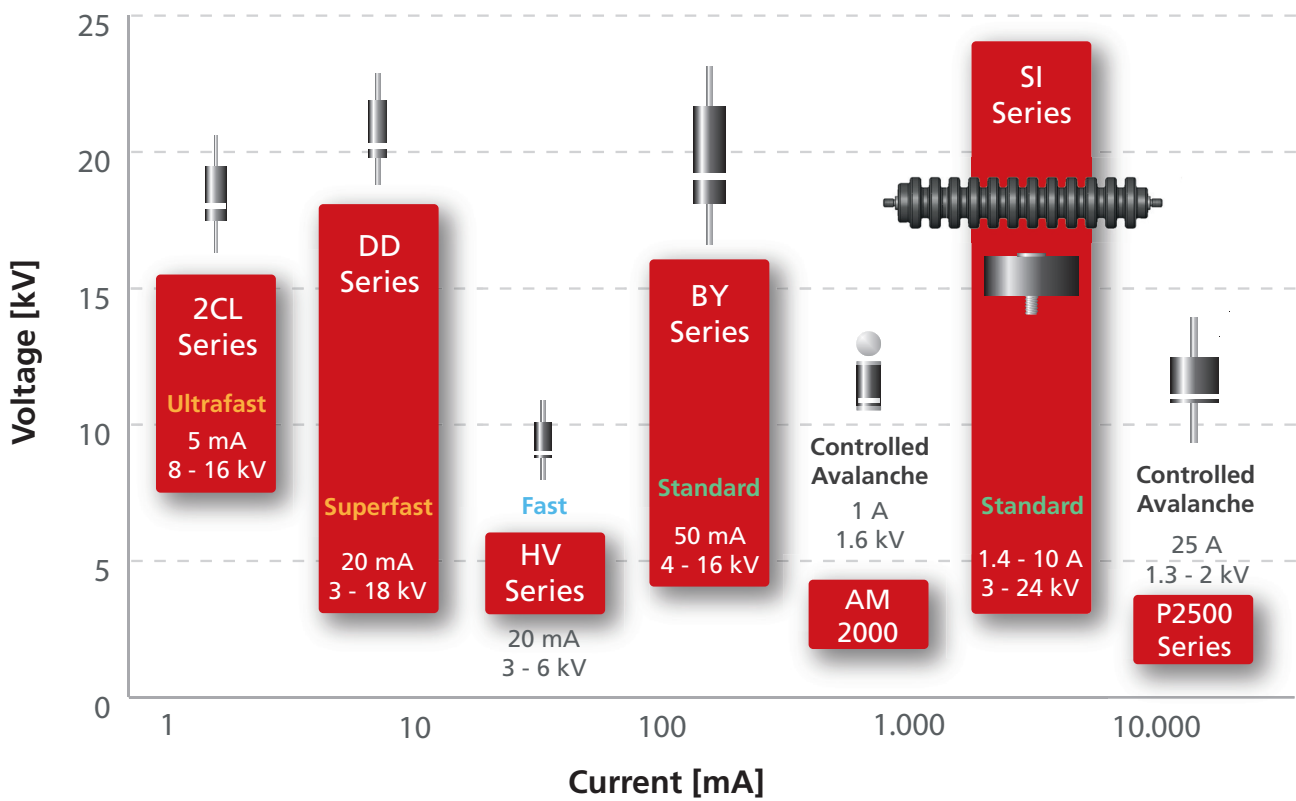
High voltage rectifiers by Diotec allow for easy design of power supplies up to several kilovolts. This product range includes single diodes with fixed voltage rating and standard to ultrafast reverse recovery. Very flexible solutions are available in the avalanche rectifiers, which can be stacked in order to get any required voltage range.

Features/Benefits

- › Large Clearance and Creepage
- › Easy Assembly
- › Standard, Fast and Ultrafast Recovery
- › Controlled Avalanche Rectifiers
- › Available in Hockey Puck, Axial Lead, Cylinder, SMD Packages
- › Stackable to build High Voltage Cascades

Applications

- › Paper, Film and Foil Treatment
- › Corona Discharge Treatment
- › Plasma Generation
- › Surface Preconditioner
- › Laser Power Supply
- › X-Ray Generators
- › Electrostatic Dust Removal
- › Microwave Generators



Partnumber	V _{RRM} [V]	I _{FAV} [A]	V _F [V]	@ I _F [A]	I _R [μA]	@V _R [V] /25°C	t _{RR} [ns]	Package
2CL71A	8000	0.005	< 30	0.01	< 2	8000	< 80	D2.5 x 6.5
2CL71	8000	0.005	30	0.01	< 2	8000	< 80	D3 x 8
2CL72A	10000	0.005	36	0.01	< 2	10000	< 80	D2.5 x 12
2CL73A	12000	0.005	45	0.01	< 2	12000	< 80	D2.5 x 12
2CL75	16000	0.005	60	0.01	< 2	16000	< 80	D2.5 x 12
DD300	3000	0.02	40	0.01	< 5	3000	< 150	D2.5 x 6.5
DD600	6000	0.02	40	0.01	< 5	6000	< 150	D2.5 x 6.5
DD1000	10000	0.02	40	0.01	< 5	10000	< 150	D3x12
DD1200	12000	0.02	40	0.01	< 5	12000	< 150	D3x12
DD1400	14000	0.02	40	0.01	< 5	14000	< 150	D3x12
DD1600	16000	0.02	40	0.01	< 5	16000	< 150	D3x12
DD1800	18000	0.02	40	0.01	< 5	18000	< 150	D3x12
BY4512F	12000	0.45	11	0.45	< 5	12000	< 500	D7.3x22
BY4	4000	1	4	1	< 1	4000	~ 1500	D7.3x22
BY6	6000	1	6	1	< 1	6000	~ 1500	D7.3x22
BY8	8000	0.5	8	0.5	< 1	8000	~ 1500	D7.3x22
BY12	12000	0.5	10	0.5	< 1	12000	~ 1500	D7.3x22
BY16	16000	0.3	10	0.5	< 1	16000	~ 1500	D7.3x22
SI-A1125/500-6	3200	4.8 - 10*	3	5	< 5	3200	~ 1500	D 55 x 23 „Hockey Puck“
SI-A1750/775-4	4800	3.2 - 6.7*	4	4	< 5	4800	~ 1500	D 55 x 23 „Hockey Puck“
SI-A3000/1350-2.5	8000	2 - 4,2*	6	3	< 5	8000	~ 1500	D 55 x 23 „Hockey Puck“
SI-A8000/3600-1.8	24000	1.4 - 3*	15	2	< 5	24000	~ 1500	D 55 x 23 „Hockey Puck“
SI-E8000/3600-4	24000	4	< 12	4	< 5	24000	~ 1500	D49 x 258 „Cylinder“
HV3	3000	0.2	< 6	0.2	< 3	3000	< 400	DO-41
HV4	4000	0.2	< 6	0.2	< 3	4000	< 400	DO-41
HV5	5000	0.2	< 6	0.2	< 3	5000	< 400	DO-15
HV6	6000	0.2	< 6	0.2	< 3	6000	< 400	DO-15
AM2000	1600	1	1	1	< 5	1600	1500	DO-213AB
P2500T	1300	25	0.9	5	< 10	1300	1500	D8x7.5
P2500W	1600	25	0.9	5	< 10	1600	1500	D8x7.6
P2500X	1800	25	0.9	5	< 10	1800	1500	D8x7.7
P2500Y	2000	25	0.9	5	< 10	2000	1500	D8x7.8

* I_{FAV} depends on cooling method, please refer to data sheet