

RECTIFIER DIODES

HIGH POWER IN PRESS PACK DESIGN

KEY FEATURES

- ◆ Optimized chip design for different application fields
- ◆ Precision control of Q_{RR} and V_{FM}
- ◆ Press-pack design
- ◆ High reliability



Type	V_{RRM}	$I_{F(AV)}$ $T_c = 85^\circ\text{C}$	I_{FSM} $t_p = 10\text{ms}$	V_{TO} T_{jmax}	r_T T_{jmax}	$R_{th(j-c)}$	T_{jmax}	F
	V	A	kA	V	mΩ	$^\circ\text{C/W}$	$^\circ\text{C}$	kN
up to 2200 V								
D163-3200	1200-2200	4080	48	0.77	0.060	0.0160	175	33
D173-5000	1200-2200	6410	65	0.77	0.040	0.0100	175	45
D183-6300	1200-2200	7460	90	0.77	0.040	0.0080	175	70
D193-8000	1200-2200	9100	98	0.85	0.029	0.0065	175	80
up to 3400 V								
D163-2500	2400-3200	3380	42	0.85	0.097	0.0160	175	33
D173-4000	2400-3200	5290	53	0.85	0.065	0.0100	175	45
D183-5000	2400-3200	5690	80	0.85	0.080	0.0080	175	70
D193-6300	2400-3200	8500	90	0.85	0.037	0.0065	175	80
up to 4400 V								
D163-2000	3400-4400	2520	31	0.90	0.154	0.0160	160	33
D173-3200	3400-4400	3940	43	0.90	0.103	0.0100	160	45
D183-4000	3400-4200	4680	60	0.90	0.095	0.0080	160	70
D193-5000	3400-4200	7300	67	0.85	0.040	0.0065	160	80
up to 5200 V								
D163-1600	4400-5200	1980	28	0.92	0.230	0.0160	150	33
D173-2500	4400-5200	3060	37	0.95	0.155	0.0100	150	45
D183-3200	4400-5000	4000	50	0.95	0.110	0.0080	150	70
D193-4000	4400-5000	4950	58	0.94	0.088	0.0065	150	80
up to 6500 V								
D163-1250	5200-6500	1490	21	1.00	0.350	0.0160	140	33
D173-2000	5200-6500	2530	29	1.00	0.250	0.0100	150	45
D183-2500	5200-6500	3170	40	1.00	0.200	0.0080	150	70
D193-3200	5200-6500	4180	45	1.00	0.135	0.0065	150	80
up to 8000 V								
D543-630	7000-8000	651	11	1.20	1.20	0.0270	140	15
D453-800	7000-8000	933	23	1.20	0.90	0.0180	140	26
D373-1600	7000-8000	1830	24	1.20	0.40	0.0100	140	45
up to 10000 V								
D543-500	9000-10000	560	10	1.50	1.50	0.0270	140	15
D453-630	9000-10000	794	22	1.50	1.20	0.0180	140	26
D373-1250	9000-10000	1403	23	1.50	0.70	0.0100	140	45

Development and delivery of diodes in accordance with Customer technical requirements

TYPICAL APPLICATIONS

- ◆ Rectifier traction substations
- ◆ Industrial AC and DC drives
- ◆ Electrolysis
- ◆ Traction



ELECTROVIPRYAMITEL
www.elvpr.ru

Tel: +7 8342 47 04 30

fax: +7 8342 47 15 01

e-mail: vpruvs@elvpr.ru