

DATA SHEET

DESCRIPTION	FAST RECOVERY DIODE
APPLICATION	IGBT MODULE
ISSUED DATE	2026-01-02



Opto Device Technology

Rectifier Diode Specification

No.	Device Name	Chip Specification				Application	ELECTRICAL CHARACTERISTICS				
		Chip Size [mm×mm]	Thickness [μm]	VRRM [V]	IF [A]		BVR (실측)	VF (IF:0.1A)	VF (IF:1A)	VF (IF:5A)	Trr (ns)
1	OPRD1AA060	0.6*0.6	240	600	0.1	BRIDGE DIODE	650	0.92			
2	OPRD01A18V	1.25*1.25	250	18	1	Voltage Stabilization	18		0.9		
3	OPRD01A016	1.25*1.25	250	160	1	Voltage Stabilization	160		0.9		
4	OPRD01A020	1.25*1.25	250	200	1	Voltage Stabilization	200		0.9		
5	OPRD01A040	1.20*1.20	240	400	1	LED/TVS	440	0.8	0.95		
6	OPRD01A060B	1.1*0.9	240	600	1	BRIDGE DIODE	650	0.83	1		
7	OPRD01A060	1.30*1.30	240	600	1	LED DRIVE	750	0.8	1		
8	OPRD05A060	1.63*1.63	250	600	5	LED DRIVE	710	0.8	0.9	1.2	
9	OPRD30A080	3.30*3.30	252	800	30	BRIDGE DIODE	850	0.7	0.8	1	
10	OPRD30A100	3.30*3.30	265	1000	30	BRIDGE DIODE	1150	0.7	0.8	1	
11	OPRD30A100B	3.42*3.42	265	1000	30	BRIDGE DIODE	1150	0.7	0.8	1	
12	OPRD15A160	3.00*3.00	300	1600	15	BRIDGE DIODE	1700	0.73	0.84	1	
13	OPRD25A160	3.60*3.60	300	1600	25	BRIDGE DIODE	1700	0.72	0.82	0.95	
14	OPRD40A160	4.60*4.60	300	1600	40	BRIDGE DIODE	1700	0.71	0.79	0.91	
15	OPRD50A160	5.60*5.60	300	1600	50	BRIDGE DIODE	1700	0.7	0.78	0.88	
16	OPRD100A160	8.00*8.00	300	1600	100	BRIDGE DIODE	1700	0.67	0.75	0.84	

Fast Recovery Diode Specification

No.	Device Name	Chip Specification				Application	ELECTRICAL CHARACTERISTICS				
		Chip Size [mm×mm]	Thickness [μm]	VRRM [V]	IF [A]		BVR (실측)	VF (IF:0.1A)	VF (IF:1A)	VF (IF:5A)	Trr (ns)
17	OPFD20A030	3.50*3.50	245	350	20	Welding Machine	400	0.6	0.8	1	220
18	OPFD20A040	3.50*3.50	245	430	20	Welding Machine	500	0.6	0.8	1	250
19	OPFD100A040	7.80*7.80	245	400	100	Welding Machine	480	0.7	0.8	0.9	220
								0.55	0.7	0.9	220
20	OPFD01A060	0.90*1.10	240	600	1	IPM/LED	700	0.5	0.65	0.85	130
								0.9	1.5		160
21	OPFD01A060R	0.90*1.10	250	600	1	IPM/LED	900	1	1.9		80
22	OPFD10A060	2.10*2.10	250	600	10	Welding Machine	700	5	15		80
								0.7	0.9	1.2	180
23	OPFD30A060	3.10*3.10	250	600	30	Welding Machine	700	0.7	0.95	1.4	100
24	OPFD50A060	4.50*4.50	250	600	50	Welding Machine	700	0.6	1	1.5	80
25	OPFD75A060	6.48*6.48	245	600	75	Welding Machine	700	0.6	0.8	1.2	80
26	OPFD15A100	4.30*2.40	262	1000	15	Cooker/IGBT C0-PAK	1500	0.5	0.7	1.1	80
27	OPFD10A120	2.70*1.80	270	1400	10	Cooker/IGBT C0-PAK	1500	0.7	1	1.3	230
28	OPFD10A135	2.70*1.80	270	1400	10	Cooker/IGBT C0-PAK	1500	0.8	1.1	1.7	230
29	OPFD15A120	3.00*2.30	270	1400	15	Cooker/IGBT C0-PAK	1500	0.8	1.1	1.7	230
30	OPFD15A135	3.00*2.30	270	1400	15	Cooker/IGBT C0-PAK	1500	0.7	1	1.4	230
31	OPFD25A120	3.80*2.40	270	1400	25	Cooker/IGBT C0-PAK	1500	0.7	1	1.3	230
32	OPFD25A135	3.80*2.40	270	1400	25	Cooker/IGBT C0-PAK	1500	0.7	1	1.3	230
33	OPFD40A120	4.50*3.40	270	1200	40	Cooker/IGBT C0-PAK	1500	0.7	0.85	1	250
								0.7	0.9	1.2	230
								0.7	1	1.4	220
								0.7	1	1.5	210
								0.7	1.5	2.5	120
34	OPFD75A120	6.86*6.86	270	1200	75	Welding Machine	1500	0.7	1.1	1.8	120
								0.6	0.8	1.1	220
35	OPFD10A150	5.00*3.00	270	1500	10	Cooker/IGBT C0-PAK	1600	0.7	0.8	1.1	500

Ultra Fast Recovery Diode Specification

No.	Device Name	Chip Specification				Application	ELECTRICAL CHARACTERISTICS				
		Chip Size [mm×mm]	Thickness [μm]	VRRM [V]	IF [A]		BVR (실측)	VF (IF:0.1A)	VF (IF:1A)	VF (IF:5A)	Trr (ns)
36	OPUD10A020	2.70*2.70	245	200	10	Welding Machine	250	0.7	0.8	1	180
37	OPUD20A040D	4.30*4.30	245	400	20	Welding Machine	450	0.6	0.8	1.1	180
								0.6	0.8	1.1	80

Hyper Fast Recovery Diode Specification

No.	Device Name	Chip Specification				Application	ELECTRICAL CHARACTERISTICS				
		Chip Size [mm×mm]	Thickness [μm]	VRRM [V]	IF [A]		BVR (실측)	VF (IF:0.1A)	VF (IF:1A)	VF (IF:5A)	Trr (ns)
38	OPHD05A060	1.63*1.63	250	600	5	SMPS / Inverter	680	0.8	1.2	2.5	40
39	OPHD08A060	1.8*1.8	250	600	8	SMPS / Inverter	730	0.8	1.2	1.65	40
40	OPHD10A020	2.60*2.60	250	200	10	SMPS / Inverter	330	0.6	0.8	0.9	40
41	OPHD20A065	2.6*2.6	220	650	20	SMPS / Inverter	730	0.4	0.9	1.2	40
42	OPHD30A030	3.63*3.96	250	300	30	Welding Machine	430	0.6	0.7	0.9	40
43	OPHD10A040	2.10*2.10	250	200	10	SMPS / Inverter	450	0.7	0.9	1.2	40
44	OPHD40A040	4.06*4.06	250	400	40	Welding Machine	500	0.6	0.75	1.05	40
45	OPHD10A060	2.1*2.1	250	600	10	SMPS / Inverter	680	0.7	1.1	1.7	40
46	OPHD10A060B	2.1*2.1	250	600	10	SMPS / Inverter	740	0.75	1.1	1.5	40
47	OPHD16A060D	2.55*2.55	250	600	16	SMPS / Inverter	700	0.7	1.0	1.2	40