

Fast Recovery Diodes

International
IOR Rectifier

Part Number	V_{RRM} (V)	$I_{FAV} @ T_C$ (A) (C)	I_{FSM} 50 Hz 60Hz (A)	$V_{FM} @ \pi \times F(AV)$ (V)	t_{rr} (nS)	$R_{\theta JC}$ (°C/W)	Notes	Circuit	Fax-on-Demand
D-Pak									
20ETF02S	200	20	97	250	260	1.3	160	0.9	1 1.2
20ETF04S	400	20	97	250	260	1.3	160	0.9	1.2
20ETF06S	600	20	97	250	260	1.3	160	0.9	1.2
D2Pak									
20ETF02	200	20	97	250	260	1.3	160	0.9	1 1.2
20ETF04	400	20	97	250	260	1.3	160	0.9	1 1.2
20ETF06	600	20	97	250	260	1.3	160	0.9	1.2
TO-220AC									
30EPF02	200	30	98	300	315	1.41	160	0.8	1.2
30EPF04	400	30	98	300	315	1.41	160	0.8	1.2
30EPF06	600	30	98	300	315	1.41	160	0.8	1.2
TO-247 (Mod)									
40EPF02	200	40	75	400	420	1.25	160	0.6	1.4
40EPF04	400	40	75	400	420	1.25	160	0.6	1.4
40EPF06	600	40	75	400	420	1.25	160	0.6	1.6
60EPF02	200	60	115	700	730	1.3	160	0.35	1.6
60EPF04	400	60	115	700	730	1.3	160	0.35	1.6
60EPF06	600	60	115	700	730	1.3	160	0.35	1.6
TO-247AC (TO-3P)									
30CPF02	200	30	98	300	315	1.41	160	0.8	1.2
30CPF04	400	30	98	300	315	1.41	160	0.8	1.2
30CPF06	600	30	98	300	315	1.41	160	0.8	1.2
80EPF02	200	80	115	800	850	1.2	160	0.32	1.8
									2 Anodes
									2 Anodes
									2 Anodes
									2 Anodes

1 Available on tape and reel. Refer to case outline.

1.2 IFM=20A, -di/dt=100A/μs

1.4 IFM=40A, -di/dt=100A/μs

1.6 IFM=60A, -di/dt=100A/μs

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Part Number	V_{RRM} (V)	$I_{FAV}^{@T_C}$ (A)	T_C (°C)	I_{FSM}		$V_{FM}^{@}$ $\pi \times F(AV)$ (V)	t_{rr} (nS)	$R_{\theta JC}$ (°C/W)	Notes	Circuit	Fax-on-Demand
				50 Hz	60Hz						
80EPF04	400	80	115	800	850	1.2	160	0.32	1.8	2 Anodes	
80EPF06	600	80	115	800	850	1.2	160	0.32	1.8	2 Anodes	

1 Available on tape and reel. Refer to case outline.

1.2 IFM=20A, -di/dt=100A/μs

1.4 IFM=40A, -di/dt=100A/μs

1.6 IFM=60A, -di/dt=100A/μs

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Part Number	V_{RRM} (V)	$I_{FAV} @ T_C$ (A)	I_{FSM} 50 Hz 60Hz (A)	$V_{FM} @ \pi \times F(AV)$ (V)	t_{rr} (nS)	$R_{\theta JC}$ (°C/W)	Notes	Fax-on-Demand
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Discrete

DO-203AA (DO-4)

1N3879	50	6	100	72	75	1.40	300	2.5	2 5 3 4	20030
1N3880	100	6	100	72	75	1.40	300	2.5	2 5 3 4	20030
1N3881	200	6	100	72	75	1.40	300	2.5	2 5 3 4	20030
1N3882	300	6	100	72	75	1.40	300	2.5	2 5 3 4	20030
1N3883	400	6	100	72	75	1.40	300	2.5	2 5 3 4	20030
6FL10S02	100	6	100	110	115	1.40	200	2.50	2 5 3 4	20030
6FL10S05	100	6	100	110	115	1.40	500	2.50	2 5 3 4	20030
6FL20S02	200	6	100	110	115	1.40	200	2.50	2 5 3 4	20030
6FL20S05	200	6	100	110	115	1.40	500	2.50	2 5 3 4	20030
6FL40S02	400	6	100	110	115	1.40	200	2.50	2 5 3 4	20030
6FL40S05	400	6	100	110	115	1.40	500	2.50	2 5 3 4	20030
6FL60S02	600	6	100	110	115	1.40	200	2.50	2 5 3 4	20030
6FL60S05	600	6	100	110	115	1.40	500	2.50	2 5 3 4	20030
6FL80S05	800	6	100	110	115	1.40	500	2.50	2 5 3 4	20030
6FL100S05	1000	6	100	110	115	1.40	500	2.50	2 5 3 4	20030
12FL10S05	100	12	100	145	150	1.40	500	2.0	2 5 3 4	20030
12FL10S02	100	12	100	145	150	1.40	200	2.0	2 5 3 4	20030
12FL20S05	200	12	100	145	150	1.40	500	2.0	2 5 3 4	20030
12FL20S02	200	12	100	145	150	1.40	200	2.0	2 5 3 4	20030
12FL40S02	400	12	100	145	150	1.40	200	2.0	2 5 3 4	20030
12FL40S05	400	12	100	145	150	1.40	500	2.0	2 5 3 4	20030
12FL60S02	600	12	100	145	150	1.40	200	2.0	2 5 3 4	20030
12FL60S05	600	12	100	145	150	1.40	500	2.0	2 5 3 4	20030
12FL80S05	800	12	100	145	150	1.40	500	2.0	2 5 3 4	20030

2 For I_{FSM} : 100% V_{RRM} reapplied, $T_j = T_{jmax} = 125^\circ C$

3 t_{rr} conditions: $T_j = 25^\circ C$, $I_{FM} = \pi \times \text{rated } I_F(AV)$, $diF/dt = 25 A/\mu s$.

4 V_{FM} measured at $T_j = 25^\circ C$

5 Cathode to stud. To order anode to stud, add 'R' to part number (e.g. 1RD3899R, 40HFLR10S02)

6 Available with metric stud. To order, add M to part number (e.g. 40FL10S02M)

7 V_{FM} conditions: $I_{FM} = 30A_{pk}$, $T_j = 25^\circ C$

8 V_{FM} conditions: $I_{FM} = 60A_{pk}$, $T_j = 25^\circ C$

9 $I_F(AV)$ conditions: $180^\circ C$ conduction, half sine

10 $T_j = 25^\circ C$, $I_F = 1A$, $di/dt = 100A/\mu s$, $V_R = 30V$

11 For I_{FSM} : 100% V_{RRM} reapplied, $T_j = T_{jmax}$.

12 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (e.g. SD103R04S10PV)

13 Available with metric stud. To order, change P to M in part number (e.g. SD103N04S10MV)

14 Available with flag lead. To order, add B to part number, e.g. (e.g. SD103N04S10PBV)

15 For t_{rr} : $T_j = 25^\circ C$

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12FL100S05	1000	12	100	145	150	1.40	500	2.0	2 5 3 4	20030
1N3889	50	12	100	145	150	1.40	300	2.0	2 5 3 4	20030
1N3890	100	12	100	145	150	1.40	300	2.0	2 5 3 4	20030
1N3891	200	12	100	145	150	1.40	300	2.0	2 5 3 4	20030
1N3892	300	12	100	145	150	1.40	300	2.0	2 5 3 4	20030
1N3893	400	12	100	145	150	1.40	300	2.0	2 5 3 4	20030
16FL10S05	100	16	100	180	190	1.40	500	1.6	2 5 3 4	20030
16FL10S02	100	16	100	180	190	1.40	200	1.6	2 5 3 4	20030
16FL20S05	200	16	100	180	190	1.40	500	1.6	2 5 3 4	20030
16FL20S02	200	16	100	180	190	1.40	200	1.6	2 5 3 4	20030
16FL40S02	400	16	100	180	190	1.40	200	1.6	2 5 3 4	20030
16FL40S05	400	16	100	180	190	1.40	500	1.6	2 5 3 4	20030
16FL60S05	600	16	100	180	190	1.40	500	1.6	2 5 3 4	20030
16FL60S02	600	16	100	180	190	1.40	200	1.6	2 5 3 4	20030
16FL80S05	800	16	100	180	190	1.40	500	1.6	2 5 3 4	20030
16FL100S05	1000	16	100	180	190	1.40	500	1.6	2 5 3 4	20030
DO-203AB (DO-5)										
IRD3899	50	20	100	240	250	1.65	350	0.60	2 3 4 5 6	20092
IRD3900	100	20	100	240	250	1.65	350	0.60	2 3 4 5 6	20092
IRD3901	200	20	100	240	250	1.65	350	0.60	2 3 4 5 6	20092
IRD3902	300	20	100	240	250	1.65	350	0.60	2 3 4 5 6	20092
IRD3903	400	20	100	240	250	1.65	350	0.60	2 3 4 5 6	20092
30HFU-100	100	30	91	400	420	1.45	60	0.6	2 3 5 6 7 9 10	82021
30HFU-200	200	30	91	400	420	1.45	60	0.6	2 3 5 6 7 9 10	82021
30HFU-300	300	30	91	400	420	1.45	60	0.6	2 3 5 6 7 9 10	82021
30HFU-400	400	30	91	400	420	1.45	60	0.6	2 3 5 6 7 9 10	82021

2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=125°C

3 trr conditions: Tj = 25°C, IFM = π X rated IF(AV), diF/dt = 25 A/μs.

4 VFM measured at Tj= 25°C

5 Cathode to stud. To order anode to stud, add 'R' to part number (e.g. IRD3899R, 40HFLR10S02)

6 Available with metric stud. To order, add M to part number (e.g. 40FL10S02M)

7 VFM conditions: IFM = 30Apk, Tj=25°C

8 VFM conditions: IFM = 60Apk, Tj=25°C

9 IF(AV) conditions: 180°C conduction, half sine

10 Tj = 25°C, IF=1A, -di/dt = 100A/μs, VR=30V

11 For Ifsm: 100% VRRM reapplied, Tj=Tj max.

12 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (e.g. SD103R04S10PV)

13 Available with metric stud. To order, change P to M in part number (e.g. SD103N04S10MV)

14 Available with flag lead. To order, add B to part number, e.g. (e.g. SD103N04S10PBV)

15 For trr: Tj=25°C

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Part Number	V _{RRM} (V)	I _{FAV} @ T _C (A) (C)	I _{FSM}		V _{FM} @ π X F(AV) (V)	t _{rr} (nS)	R _{θ JC} (°C/W)	Notes	Fax-on-Demand	
			50 Hz	60Hz						
30HFU-500	500	30	91	400	420	1.45	60	0.6	2 3 5 6 7 9 10	82021
30HFU-600	600	30	91	400	420	1.45	60	0.6	2 3 5 6 7 9 10	82021
IRD3909	50	30	100	285	300	1.80	350	0.46	2 3 4 5 6	20092
IRD3910	100	30	100	285	300	1.80	350	0.46	2 3 4 5 6	20092
IRD3911	200	30	100	285	300	1.80	350	0.46	2 3 4 5 6	20092
IRD3912	300	30	100	285	300	1.80	350	0.46	2 3 4 5 6	20092
IRD3913	400	30	100	285	300	1.80	350	0.46	2 3 4 5 6	20092
40HFL10S02	100	40	75	400	420	1.95	200	0.6	2 3 4 5 6	20093
40HFL10S05	100	40	75	400	420	1.95	500	0.6	2 3 4 5 6	20093
40HFL20S05	200	40	75	400	420	1.95	500	0.6	2 3 4 5 6	20093
40HFL20S02	200	40	75	400	420	1.95	200	0.6	2 3 4 5 6	20093
40HFL40S05	400	40	75	400	420	1.95	500	0.6	2 3 4 5 6	20093
40HFL40S02	400	40	75	400	420	1.95	200	0.6	2 3 4 5 6	20093
40HFL60S05	600	40	75	400	420	1.95	500	0.6	2 3 4 5 6	20093
40HFL60S02	600	40	75	400	420	1.95	200	0.6	2 3 4 5 6	20093
40HFL80S05	800	40	75	400	420	1.95	500	0.6	2 3 4 5 6	20093
40HFL100S05	1000	40	75	400	420	1.95	500	0.6	2 3 4 5 6	20093
60HFU-100	100	60	82	700	730	1.50	60	0.36	2 3 5 6 8 9 10	80061
60HFU-200	200	60	82	700	730	1.50	60	0.36	2 3 5 6 8 9 10	80061
60HFU-300	300	60	82	700	730	1.50	60	0.36	2 3 5 6 8 9 10	80061
60HFU-400	400	60	82	700	730	1.50	60	0.36	2 3 5 6 8 9 10	80061
60HFU-500	500	60	82	700	730	1.50	60	0.36	2 3 5 6 8 9 10	80061
60HFU-600	600	60	82	700	730	1.50	60	0.36	2 3 5 6 8 9 10	80061
70HFL10S05	100	70	75	700	730	1.85	500	0.36	2 3 5 6 6	20093
70HFL10S02	100	70	75	700	730	1.85	200	0.36	2 3 5 6 6	20093
70HFL20S05	200	70	75	700	730	1.85	500	0.36	2 3 5 6 6	20093
70HFL20S02	200	70	75	700	730	1.85	200	0.36	2 3 5 6 6	20093

2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=125°C

3 trr conditions: Tj = 25°C, IFM = π X rated IF(AV), diF/dt = 25 A/μs.

4 VFM measured at Tj= 25°C

5 Cathode to stud. To order anode to stud, add 'R' to part number (e.g. IRD3899R, 40HFLR10S02)

6 Available with metric stud. To order, add M to part number (e.g. 40FL10S02M)

7 VFM conditions: IFM = 30Apk, Tj=25°C

8 VFM conditions: IFM = 60Apk, Tj=25°C

9 IF(AV) conditions: 180°C conduction, half sine

10 Tj = 25°C, IF=1A, -di/dt = 100A/μs, VR=30V

11 For Ifsm: 100% VRRM reapplied, Tj=Tj max.

12 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (e.g. SD103R04S10PV)

13 Available with metric stud. To order, change P to M in part number (e.g. SD103N04S10MV)

14 Available with flag lead. To order, add B to part number, e.g. (e.g. SD103N04S10PBV)

15 For trr: Tj=25°C

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Part Number	V _{RRM} (V)	I _{FAV} @ T _C (A)	(C)	I _{FSM} 50 Hz (A)	60Hz (A)	V _{FM} @ π X F(AV) (V)	t _{rr} (nS)	R _{θJC} (°C/W)	Notes	Fax-on-Demand
70HFL40S02	400	70	75	700	730	1.85	200	0.36	2 3 5 6 6	20093
70HFL40S05	400	70	75	700	730	1.85	500	0.36	2 3 5 6 6	20093
70HFL60S05	600	70	75	700	730	1.85	500	0.36	2 3 5 6 6	20093
70HFL60S02	600	70	75	700	730	1.85	200	0.36	2 3 5 6 6	20093
70HFL80S05	800	70	75	700	730	1.85	500	0.36	2 3 5 6 6	20093
70HFL100S05	1000	70	75	700	730	1.85	500	0.36	2 3 5 6 6	20093
85HFL10S02	100	85	75	1100	1150	1.75	200	0.30	2 3 4 5 6	20093
85HFL10S05	100	85	75	1100	1150	1.75	500	0.30	2 3 4 5 6	20093
85HFL20S02	200	85	75	1100	1150	1.75	200	0.30	2 3 4 5 6	20093
85HFL20S05	200	85	75	1100	1150	1.75	500	0.30	2 3 4 5 6	20093
85HFL40S05	400	85	75	1100	1150	1.75	500	0.30	2 3 4 5 6	20093
85HFL40S02	400	85	75	1100	1150	1.75	200	0.30	2 3 4 5 6	20093
85HFL60S05	600	85	75	1100	1150	1.75	500	0.30	2 3 4 5 6	20093
85HFL60S02	600	85	75	1100	1150	1.75	200	0.30	2 3 4 5 6	20093
85HFL80S05	800	85	75	1100	1150	1.75	500	0.30	2 3 4 5 6	20093
85HFL100S05	1000	85	75	1100	1150	1.75	500	0.36	2 3 4 5 6	20093
DO-205AC (DO-30)										
SD103N04S10PV	400	110	85	3000	3140	2.23	1000	0.16	2 4 12 13 14 15	82062
SD103N08S10PV	800	110	85	3000	3140	2.23	1000	0.16	2 4 12 13 14 15	82062
SD103N10S10PV	1000	110	85	3000	3140	2.23	1000	0.16	2 4 12 13 14 15	82062
SD103N12S15PV	1200	110	85	3000	3140	2.23	1500	0.16	2 4 12 13 14 15	82062
SD103N14S15PV	1400	110	85	3000	3140	2.23	1500	0.16	2 4 12 13 14 15	82062
SD103N16S15PV	1600	110	85	3000	3140	2.23	1500	0.16	2 4 12 13 14 15	82062
SD103N20S20PC	2000	110	85	3000	3140	2.23	2000	0.16	2 4 12 13 14 15	82062
SD103N25S20PC	2500	110	85	3000	3140	2.23	2000	0.16	2 4 12 13 14 15	82062
SD153N04S10PV	400	150	85	3600	3770	1.55	1000	0.16	2 4 12 13 14 15	82063

2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=125°C

3 trr conditions: Tj = 25°C, IFM = π X rated IF(AV), diF/dt = 25 A/μs.

4 VFM measured at Tj= 25°C

5 Cathode to stud. To order anode to stud, add 'R' to part number (e.g. IRD3899R, 40HFLR10S02)

6 Available with metric stud. To order, add M to part number (e.g. 40FL10S02M)

7 VFM conditions: IFM = 30Apk, Tj=25°C

8 VFM conditions: IFM = 60Apk, Tj=25°C

9 IF(AV) conditions: 180°C conduction, half sine

10 Tj = 25°C, IF=1A, -di/dt = 100A/μs, VR=30V

11 For Ifsm: 100% VRRM reapplied, Tj=Tj max.

12 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (e.g. SD103R04S10PV)

13 Available with metric stud. To order, change P to M in part number (e.g. SD103N04S10MV)

14 Available with flag lead. To order, add B to part number, e.g. (e.g. SD103N04S10PBV)

15 For trr: Tj=25°C

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Part Number	V _{RRM} (V)	I _{FAV} @ T _C (A)	(C)	I _{FSM} 50 Hz (A)	60Hz (A)	V _{FM} @ π X F(AV) (V)	t _{rr} (nS)	R _{θJC} (°C/W)	Notes	Fax-on-Demand
SD153N08S10PV	800	150	85	3600	3770	1.55	1000	0.16	2 4 12 13 14 15	82063
SD153N10S10PV	1000	150	85	3600	3770	1.55	1000	0.16	2 4 12 13 14 15	82063
SD153N12S15PV	1200	150	85	3600	3770	1.55	1500	0.16	2 4 12 13 14 15	82063
SD153N14S15PV	1400	150	85	3600	3770	1.55	1500	0.16	2 4 12 13 14 15	82063
SD153N16S15PV	1600	150	85	3600	3770	1.55	1500	0.16	2 4 12 13 14 15	82063
DO-205AB (DO-9)										
SD203N04S10PV	400	200	85	4200	4400	1.65	1000	0.115	2 4 12 13 14 15	82064
SD203N08S10PV	800	200	85	4200	4400	1.65	1000	0.115	2 4 12 13 14 15	82064
SD203N10S10PV	1000	200	85	4200	4400	1.65	1000	0.115	2 4 12 13 14 15	82064
SD203N12S15PV	1200	200	85	4200	4400	1.65	1500	0.115	2 4 12 13 14 15	82064
SD203N14S15PV	1400	200	85	4200	4400	1.65	1500	0.115	2 4 12 13 14 15	82064
SD203N16S15PV	1600	200	85	4200	4400	1.65	1500	0.115	2 4 12 13 14 15	82064
SD203N20S20PC	2000	200	85	4200	4400	1.65	2000	0.115	2 4 12 13 14 15	82064
SD203N25S20PC	2500	200	85	4200	4400	1.65	2000	0.115	2 4 12 13 14 15	82064
251UL80S10	800	250	70	3350	3500	1.78	1000	0.15	2 4 5 15 16	20491
251UL100S10	1000	250	70	3350	3500	1.78	1000	0.15	2 4 5 15 16	20491
251UL120S15	1200	250	70	3350	3500	1.78	1500	0.15	2 4 5 15 16	20491
251UL140S15	1400	250	70	3350	3500	1.78	1500	0.15	2 4 5 15 16	20491
251UL160S15	1600	250	70	3350	3500	1.78	1500	0.15	2 4 5 15 16	20491
251UL180S20	1800	250	70	3350	3500	1.78	2000	0.15	2 4 5 16	20491
251UL200S20	2000	250	70	3350	3500	1.78	2000	0.15	2 4 5 16	20491
251UL250S20	2500	250	70	3350	3500	1.78	2000	0.15	2 4 5 16	20491
SD253N04S15PV	400	250	85	4500	4710	1.38	1500	0.115	2 4 12 13 14 15	82065
SD253N08S15PV	800	250	85	4500	4710	1.38	1500	0.115	2 4 12 13 14 15	82065
SD253N10S15PV	1000	250	85	4500	4710	1.38	1500	0.115	2 4 12 13 14 15	82065
SD253N12S20PV	1200	250	85	4500	4710	1.38	2000	0.115	2 4 12 13 14 15	82065

2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=125°C

3 trr conditions: Tj = 25°C, IFM = π X rated IF(AV), diF/dt = 25 A/μs.

4 VFM measured at Tj= 25°C

5 Cathode to stud. To order anode to stud, add 'R' to part number (e.g. IRD3899R,40HFLR10502)

6 Available with metric stud. To order, add M to part number (e.g. 40FL10S02M)

7 VFM conditions: IFM = 30Apk, Tj=25°C

8 VFM conditions: IFM = 60Apk, Tj=25°C

9 IF(AV) conditions: 180°C conduction, half sine

10 Tj = 25°C, IF=1A, -di/dt = 100A/μs, VR=30V

11 For Ifsm: 100% VRRM reapplied, Tj=Tj max.

12 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (e.g. SD103R04S10PV)

13 Available with metric stud. To order, change P to M in part number (e.g. SD103N04S10MV)

14 Available with flag lead. To order, add B to part number, e.g. (e.g. SD103N04S10PBV)

15 For trr: Tj=25°C

Fast Recovery Diodes

International
IOR Rectifier

Part Number	V _{RRM} (V)	I _{FAV} @ T _C (A)	(C)	I _{FSM} 50 Hz (A)	60Hz (A)	V _{FM} @ π X F(AV) (V)	t _{rr} (nS)	R _{θJC} (°C/W)	Notes	Fax-on-Demand
SD253N14S20PV	1400	250	85	4500	4710	1.38	2000	0.115	2 4 12 13 14 15	82065
SD253N16S20PV	1600	250	85	4500	4710	1.38	2000	0.115	2 4 12 13 14 15	82065
B-8										
SD233N30S50PC	3000	235	60	4630	4840	3.20	5000	0.10	2 4 12 13 14 15	
SD233N36S50PC	3600	235	60	4630	4840	3.20	5000	0.10	2 4 12 13 14 15	
SD233N40S50PC	4000	235	60	4630	4840	3.20	5000	0.10	2 4 12 13 14 15	
SD233N45S50PC	4500	235	60	4630	4840	3.20	5000	0.10	2 4 12 13 14 15	
SD453N12S20PC	1200	400	70	7820	8190	2.20	2000	0.10	2 4 12 13 15	82076
SD453N16S20PC	1600	400	70	7820	8190	2.20	2000	0.10	2 4 12 13 15	82076
SD453N20S20PC	2000	400	70	7820	8190	2.20	2000	0.10	2 4 12 13 15	82076
SD453N25S20PC	2500	400	70	7820	8190	2.20	2000	0.10	2 4 12 13 15	82076
SD453N12S30PC	1200	450	70	8070	8450	1.85	3000	0.10	2 4 12 13 15	82076
SD453N16S30PC	1600	450	70	8070	8450	1.85	3000	0.10	2 4 12 13 15	82076
SD453N20S30PC	2000	450	70	8070	8450	1.85	3000	0.10	2 4 12 13 15	82076
SD453N25S30PC	2500	450	70	8070	8450	1.85	3000	0.10	2 4 12 13 15	82076
DO-200AA (A-Puk)										
SD303C04S10C	400	350	55	4850	5080	2.26	1000	0.08	4 11 12	82066
SD303C08S10C	800	350	55	4850	5080	2.26	1000	0.08	4 11 12	82066
SD303C10S10C	1000	350	55	4850	5080	2.26	1000	0.08	4 11 12	82066
SD303C12S15C	1200	350	55	4850	5080	2.26	1500	0.08	4 11 12	82066
SD303C14S15C	1400	350	55	4850	5080	2.26	1500	0.08	4 11 12	82066
SD303C16S15C	1600	350	55	4850	5080	2.26	1500	0.08	4 11 12	82066
SD303C20S20C	2000	350	55	4850	5080	2.26	2000	0.08	4 11 12	82066
SD303C25S20C	2500	350	55	4850	5080	2.26	2000	0.08	4 11 12	82066
SD403C04S10C	400	430	55	5200	5445	1.83	1000	0.08	4 11 12	82067
SD403C08S10C	800	430	55	5200	5445	1.83	1000	0.08	4 11 12	82067

2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=125°C

3 trr conditions: Tj = 25°C, IFM = π X rated IF(AV), diF/dt = 25 A/μs.

4 VFM measured at Tj= 25°C

5 Cathode to stud. To order anode to stud, add 'R' to part number (e.g. IRD3899R,40HFLR10S02)

6 Available with metric stud. To order, add M to part number (e.g. 40FL10S02M)

7 VFM conditions: IFM = 30Apk, Tj=25°C

8 VFM conditions: IFM = 60Apk, Tj=25°C

9 IF(AV) conditions: 180°C conduction, half sine

10 Tj = 25°C, IF=1A, -di/dt = 100A/μs, VR=30V

11 For Ifsm: 100% VRRM reapplied, Tj=Tj max.

12 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (e.g. SD103R04S10PV)

13 Available with metric stud. To order, change P to M in part number (e.g. SD103N04S10MV)

14 Available with flag lead. To order, add B to part number, e.g. (e.g. SD103N04S10PBV)

15 For trr: Tj=25°C

Fast Recovery Diodes

International
IOR Rectifier

Part Number	V _{RRM} (V)	I _{FAV} @ T _C (A)	(C)	I _{FSM} 50 Hz (A)	60Hz (A)	V _{FM} @ π X F(AV) (V)	t _{rr} (nS)	R _{θJC} (°C/W)	Notes	Fax-on-Demand
SD403C10S10C	1000	430	55	5200	5445	1.83	1000	0.08	4 11 12	82067
SD403C12S15C	1200	430	55	5200	5445	1.83	1500	0.08	4 11 12	82067
SD403C14S15C	1400	430	55	5200	5445	1.83	1500	0.08	4 11 12	82067
SD403C16S15C	1600	430	55	5200	5445	1.83	1500	0.08	4 11 12	82067
B-43 (E-Puk)										
SD603C04S10C	400	600	55	7000	7330	2.97	1000	0.038	4 11 12	82068
SD603C08S10C	800	600	55	7000	7330	2.97	1000	0.038	4 11 12	82068
SD603C10S10C	1000	600	55	7000	7330	2.97	1000	0.038	4 11 12	82068
SD603C12S15C	1200	600	55	7000	7330	2.97	1500	0.038	4 11 12	82068
SD603C14S15C	1400	600	55	7000	7330	2.97	1500	0.038	4 11 12	82068
SD603C16S15C	1600	600	55	7000	7330	2.97	1500	0.038	4 11 12	82068
SD603C20S20C	2000	600	55	7000	7330	2.97	2000	0.038	4 11 12	82068
SD603C22S20C	2200	600	55	7000	7330	2.97	2000	0.038	4 11 12	82068
SD823C12S20C	1200	810	55	7820	8190	2.20	2000	0.038	11 15 19	82074
SD823C16S20C	1600	810	55	7820	8190	2.20	2000	0.038	11 15 19	82074
SD823C20S20C	2000	810	55	7820	8190	2.20	2000	0.038	11 15 19	82074
SD823C25S20C	2500	810	55	7820	8190	2.20	2000	0.038	11 15 19	82074
SD803C04S10C	400	845	55	9500	9945	1.89	1000	0.038	4 11 12	82069
SD803C08S10C	800	845	55	9500	9945	1.89	1000	0.038	4 11 12	82069
SD803C10S10C	1000	845	55	9500	9945	1.89	1000	0.038	4 11 12	82069
SD803C12S15C	1200	845	55	9500	9945	1.89	1500	0.038	4 11 12	82069
SD803C14S15C	1400	845	55	9500	9945	1.89	1500	0.038	4 11 12	82069
SD803C16S15C	1600	845	55	9500	9945	1.89	1500	0.038	4 11 12	82069
SD823C12S30C	1200	910	55	8070	8450	1.85	3000	0.038	11 15 19	82074
SD823C16S30C	1600	910	55	8070	8450	1.85	3000	0.038	11 15 19	82074
SD823C20S30C	2000	910	55	8070	8450	1.85	3000	0.038	11 15 19	82074

2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=125°C

3 trr conditions: Tj = 25°C, IFM = π X rated IF(AV), diF/dt = 25 A/μs.

4 VFM measured at Tj= 25°C

5 Cathode to stud. To order anode to stud, add 'R' to part number (e.g. IRD3899R,40HFLR10S02)

6 Available with metric stud. To order, add M to part number (e.g. 40FL10S02M)

7 VFM conditions: IFM = 30Apk, Tj=25°C

8 VFM conditions: IFM = 60Apk, Tj=25°C

9 IF(AV) conditions: 180°C conduction, half sine

10 Tj = 25°C, IF=1A, -di/dt = 100A/μs, VR=30V

11 For Ifsm: 100% VRRM reapplied, Tj=Tj max.

12 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (e.g. SD103R04S10PV)

13 Available with metric stud. To order, change P to M in part number (e.g. SD103N04S10MV)

14 Available with flag lead. To order, add B to part number, e.g. (e.g. SD103N04S10PBV)

15 For trr: Tj=25°C

Fast Recovery Diodes

International
IOR Rectifier

Part Number	V _{RRM} (V)	I _{FAV} @T _C (A)	T _C (°C)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	V _{FM} @ π X F(AV) (V)	t _{rr} (nS)	R _{θJC} (°C/W)	Notes	Fax-on-Demand
SD823C25S30C	2500	910	55	8070	8450	1.85	3000	0.038	11 15 19	82074 DO-200AB (B-Puk)
SD263C30S50L	3000	375	55	4630	4850	3.20	5000	0.05	11 15 18 19	80071
SD263C36S50L	3600	375	55	4630	4850	3.20	5000	0.05	11 15 18 19	80071
SD263C40S50L	4000	375	55	4630	4850	3.20	5000	0.05	11 15 18 19	80071
SD263C45S50L	4500	375	55	4630	4850	3.20	5000	0.05	11 15 18 19	80071
SD553C30S50L	3000	560	55	10100	10570	3.24	5000	0.031	11 15 18 19	82092
SD553C36S50L	3600	560	55	10100	10570	3.24	5000	0.031	11 15 18 19	82092
SD553C40S50L	4000	560	55	10100	10570	3.24	5000	0.031	11 15 18 19	82092
SD553C45S50L	4500	560	55	10100	10570	3.24	5000	0.031	11 15 18 19	82092
SD703C12S20L	1200	700	55	7820	8190	2.20	2000	0.046	11 15 19	82075
SD703C16S20L	1600	700	55	7820	8190	2.20	2000	0.046	11 15 19	82075
SD703C20S20L	2000	700	55	7820	8190	2.20	2000	0.046	11 15 19	82075
SD703C25S20L	2500	700	55	7820	8190	2.20	2000	0.046	11 15 19	82075
SD703C12S30L	1200	790	55	8070	8450	1.85	3000	0.046	11 15 19	82075
SD703C16S30L	1600	790	55	8070	8450	1.85	3000	0.046	11 15 19	82075
SD703C20S30L	2000	790	55	8070	8450	1.85	3000	0.046	11 15 19	82075
SD703C25S30L	2500	790	55	8070	8450	1.85	3000	0.046	11 15 19	82075
SD1053C18S30L	1800	920	55	10930	11450	2.26	3000	0.031	3 5	82079
SD1053C22S30L	2200	920	55	10930	11450	2.26	3000	0.031	3 5	82079
SD1053C25S30L	2500	920	55	10930	11450	2.26	3000	0.031	3 5	82079
SD1053C28S30L	2800	920	55	10930	11450	2.26	3000	0.031	3 5	82079
SD1053C30S30L	3000	920	55	10930	11450	2.26	3000	0.031	3 5	82079
SD1053C18S20L	1800	1050	55	12620	13210	1.90	2000	0.031	3 5	82079
SD1053C22S20L	2200	1050	55	12620	13210	1.90	2000	0.031	3 5	82079
SD1053C25S20L	2500	1050	55	12620	13210	1.90	2000	0.031	3 5	82079

2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=125°C

3 trr conditions: Tj = 25°C, IFM = π X rated IF(AV), diF/dt = 25 A/μs.

4 VFM measured at Tj= 25°C

5 Cathode to stud. To order anode to stud, add 'R' to part number (e.g. IRD3899R,40HFLR10502)

6 Available with metric stud. To order, add M to part number (e.g. 40FL10S02M)

7 VFM conditions: IFM = 30Apk, Tj=25°C

8 VFM conditions: IFM = 60Apk, Tj=25°C

9 IF(AV) conditions: 180°C conduction, half sine

10 Tj = 25°C, IF=1A, -di/dt = 100A/μs, VR=30V

11 For Ifsm: 100% VRRM reapplied, Tj=Tj max.

12 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (e.g. SD103R04S10PV)

13 Available with metric stud. To order, change P to M in part number (e.g. SD103N04S10MV)

14 Available with flag lead. To order, add B to part number, e.g. (e.g. SD103N04S10PBV)

15 For trr: Tj=25°C

Fast Recovery Diodes

International
IOR Rectifier

Part Number	V _{RRM} (V)	I _{FAV} @T _C (A)	(C)	I _{FSM} 50 Hz (A)	60Hz (A)	V _{FM} @ π X F(AV) (V)	t _{rr} (nS)	R _{θJC} (°C/W)	Notes	Fax-on-Demand
DO-200AC (K-Puk)										
SD853C30S50K	3000	990	55	16000	16750	2.90	5000	0.02	11 15 18 19	82093
SD853C36S50K	3600	990	55	16000	16750	2.90	5000	0.02	11 15 18 19	82093
SD853C40S50K	4000	990	55	16000	16750	2.90	5000	0.02	11 15 18 19	82093
SD853C45S50K	4500	990	55	16000	16750	2.90	5000	0.02	11 15 18 19	82093
SD1553C18S30K	1800	1650	55	18500	19370	2.60	3000	0.02	11 15 19	82091
SD1553C22S30K	2200	1650	55	18500	19370	2.60	3000	0.02	11 15 19	82091
SD1553C25S30K	2500	1650	55	18500	19370	2.60	3000	0.02	11 15 19	82091
SD1553C28S30K	2800	1650	55	18500	19370	2.60	3000	0.02	11 15 19	82091
SD1553C30S30K	3000	1650	55	18500	19370	2.60	3000	0.02	11 15 19	82091
SD1553C18S20K	1800	1825	55	21030	22010	2.23	2000	0.02	11 15 19	82091
SD1553C22S20K	2200	1825	55	21030	22010	2.23	2000	0.02	11 15 19	82091
SD1553C25S20K	2500	1825	55	21030	22010	2.23	2000	0.02	11 15 19	82091
B-44 (R-Puk)										
SD2053C32S50R	3200	2000	55	25600	27100	3.50	5000	0.01	11 15 19	
SD2053C36S50R	3600	2000	55	25600	27100	3.50	5000	0.01	11 15 19	
SD2053C40S50R	4000	2000	55	25600	27100	3.50	5000	0.01	11 15 19	
SD2053C45S50R	4500	2000	55	25600	27100	3.50	5000	0.01	11 15 19	
SD3553C16S50R	1600	3500	55	40200	42600	2.04	2000	0.01	11 15 19	
SD3553C20S50R	2000	3500	55	40200	42600	2.04	2000	0.01	11 15 19	
SD3553C25S50R	2500	3500	55	40200	42600	2.04	2000	0.01	11 15 19	

2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=125°C

3 trr conditions: Tj = 25°C, IFM = π X rated IF(AV), diF/dt = 25 A/μs.

4 VFM measured at Tj= 25°C

5 Cathode to stud. To order anode to stud, add 'R' to part number (e.g. IRD3899R,40HFLR10502)

6 Available with metric stud. To order, add M to part number (e.g. 40FL10S02M)

7 VFM conditions: IFM = 30Apk, Tj=25°C

8 VFM conditions: IFM = 60Apk, Tj=25°C

9 IF(AV) conditions: 180°C conduction, half sine

10 Tj = 25°C, IF=1A, -di/dt = 100A/μs, VR=30V

11 For Ifsm: 100% VRRM reapplied, Tj=Tj max.

12 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (e.g. SD103R04S10PV)

13 Available with metric stud. To order, change P to M in part number (e.g. SD103N04S10MV)

14 Available with flag lead. To order, add B to part number, e.g. (e.g. SD103N04S10PBV)

15 For trr: Tj=25°C

Fast Power Modules

International
IOR Rectifier

Part Number		RRM (V)	$I_{FAV}@T_C$		I_{FSM}		V_{FM} (V)	t_{rr} (nS)	$R_{\theta JC}$ DC (K/W)	Notes	Fax-on-Demand
Doubler Circuit	Center Tap Circuit		(A)	(C)	50 Hz (A)	60Hz (A)					

Diode

T-Module

T40HFL10S05		100	40	70	400	420	L6	500 (110)	0.85	3 10 11 17 22	
T40HFL10S02		100	40	70	400	420	L6	200 (70)	0.85	3 10 11 17 22	
T40HFL20S02		200	40	70	400	420	L6	200 (70)	0.85	3 10 11 17 22	
T40HFL20S05		200	40	70	400	420	L6	500 (110)	0.85	3 10 11 17 22	
T40HFL40S02		400	40	70	400	420	L6	200 (70)	0.85	3 10 11 17 22	
T40HFL40S05		400	40	70	400	420	L6	500 (110)	0.85	3 10 11 17 22	
T40HFL60S02		600	40	70	400	420	L6	200 (70)	0.85	3 10 11 17 22	
T40HFL60S05		600	40	70	400	420	L6	500 (110)	0.85	3 10 11 17 22	
T40HFL80S05		800	40	70	400	420	L6	500 (110)	0.85	3 10 11 17 22	
T40HFL100S05		1000	40	70	400	420	L6	500 (110)	0.85	3 10 11 17 22	
T70HFL10S05		100	70	70	700	730	.73	500 (110)	0.53	3 10 11 17 22	
T70HFL10S02		100	70	70	700	730	.73	200 (70)	0.53	3 10 11 17 22	
T70HFL20S02		200	70	70	700	730	.73	200 (70)	0.53	3 10 11 17 22	
T70HFL20S05		200	70	70	700	730	.73	500 (110)	0.53	3 10 11 17 22	

NOTES:

3 tr conditions: $T_j = 25^\circ\text{C}$, IFM at pi X rated IF(AV), $-diF/dt = 25\text{A}/\mu\text{s}$

10 tr conditions: $T_j = 25^\circ\text{C}$, IF = 1A to VR=30V, $-diF/dt = 100\text{A}/\mu\text{s}$. Values shown in parentheses.

11 For Ifsm: 100% VRRM reapplied, $T_j = T_j \text{ max.}$

15 For Irm: $T_j = 25^\circ\text{C}$

20 Value given for $R_{\theta JC}$ is per module.

21 V_{FM} at IFM = pi X rated IF(AV), $T_j = 25^\circ\text{C}$.

22 RMS isolation voltage=3500V - 50Hz

23 RMS isolation voltage=3000V - 50Hz

Fast Power Modules

International
IOR Rectifier

Part Number		RRM (V)	$I_{FAV}@T_C$		I_{FSM}		V_{FM} (V)	t_{rr} (nS)	$R_{\theta JC}^{DC}$ (K/W)	Notes	Fax-on-Demand
Doubler Circuit	Center Tap Circuit		(A)	(C)	50 Hz (A)	60Hz (A)					
T70HFL40S05		400	70	70	700	730	.73	500 (110)	0.53	3 10 11 17 22	
T70HFL40S02		400	70	70	700	730	.73	200 (70)	0.53	3 10 11 17 22	
T70HFL60S05		600	70	70	700	730	.73	500 (110)	0.53	3 10 11 17 22	
T70HFL60S02		600	70	70	700	730	.73	200 (70)	0.53	3 10 11 17 22	
T70HFL80S05		800	70	70	700	730	.73	500 (110)	0.53	3 10 11 17 22	
T70HFL100S05		1000	70	70	700	730	.73	500 (110)	0.53	3 10 11 17 22	
T85HFL10S02		100	85	70	1100	1150	.55	200 (80)	0.46	3 10 11 17 22	
T85HFL10S05		100	85	70	1100	1150	.55	500 (120)	0.46	3 10 11 17 22	
T85HFL20S05		200	85	70	1100	1150	.55	500 (120)	0.46	3 10 11 17 22	
T85HFL20S02		200	85	70	1100	1150	.55	200 (80)	0.46	3 10 11 17 22	
T85HFL40S05		400	85	70	1100	1150	.55	500 (120)	0.46	3 10 11 17 22	
T85HFL40S02		400	85	70	1100	1150	.55	200 (80)	0.46	3 10 11 17 22	
T85HFL60S05		600	85	70	1100	1150	.55	500 (120)	0.46	3 10 11 17 22	
T85HFL60S02		600	85	70	1100	1150	.55	200 (80)	0.46	3 10 11 17 22	
T85HFL80S05		800	85	70	1100	1150	.55	500 (120)	0.46	3 10 11 17 22	

NOTES:

3 tr conditions: $T_j = 25^\circ\text{C}$, IFM at pi X rated IF(AV), $-diF/dt = 25\text{A}/\mu\text{s}$

10 tr conditions: $T_j = 25^\circ\text{C}$, IF = 1A to VR=30V, $-diF/dt = 100\text{A}/\mu\text{s}$. Values shown in parentheses.

11 For Ifsm: 100% VRRM reapplied, $T_j = T_j \text{ max.}$

15 For Irrm: $T_j = 25^\circ\text{C}$

20 Value given for $R_{\theta JC}$ is per module.

21 V_{FM} at IFM = pi X rated IF(AV), $T_j = 25^\circ\text{C}$.

22 RMS isolation voltage=3500V - 50Hz

23 RMS isolation voltage=3000V - 50Hz

Fast Power Modules

International
IOR Rectifier

Part Number	RRM (V)	$I_{FAV}@T_C$		I_{FSM}		V_{FM} (V)	t_{rr} (nS)	$R_{\theta JC}$ DC (K/W)	Notes	Fax-on-Demand
		Doubler Circuit	Center Tap Circuit	50 Hz (A)	60Hz (A)					

T85HFL100S05

1000

85

70

1100

1150

.55

500 (120)

0.46

3 10 11 17 22

Diode

INT-A-Pak

IRKEL132-06S10

600

140

100

2500

2600

.68

1000

0.20

11 20 21 23 24 25

IRKEL132-10S10

1000

140

100

2500

2600

.68

1000

0.20

11 20 21 23 24 25

IRKEL132-12S20

1200

140

100

2500

2600

.68

2000

0.20

11 20 21 23 24 25

IRKEL132-14S20

1400

140

100

2500

2600

.68

2000

0.20

11 20 21 23 24 25

Diode

MAGN-A-Pak

IRKEL240-20S30

2000

240

100

6300

6600

.71

3000

0.125

11 20 21 23 24

IRKEL240-25S30

2500

240

100

6300

6600

.71

3000

0.125

11 20 21 23 24

IRKEL240-06S10

600

250

100

6750

7100

.62

1000

0.125

11 20 21 23 24

IRKEL240-10S10

1000

250

100

6750

7100

.62

1000

0.125

11 20 21 23 24

IRKEL240-12S20

1200

250

100

6750

7100

.62

2000

0.125

11 20 21 23 24

IRKEL240-14S20

1600

250

100

6750

7100

.62

2000

0.125

11 20 21 23 24

NOTES:

3 tr conditions: $T_j = 25^\circ\text{C}$, IFM at pi X rated IF(AV), $-di/dt = 25\text{A}/\mu\text{s}$

10 tr conditions: $T_j = 25^\circ\text{C}$, IF = 1A to VR=30V, $-di/dt = 100\text{A}/\mu\text{s}$. Values shown in parentheses.

11 For Ifsm: 100% VRRM reapplied, $T_j = T_j \text{ max.}$

15 For Irm: $T_j = 25^\circ\text{C}$

20 Value given for $R_{\theta JC}$ is per module.

21 V_{FM} at IFM = pi X rated IF(AV), $T_j = 25^\circ\text{C}$.

22 RMS isolation voltage=3500V - 50Hz

23 RMS isolation voltage=3000V - 50Hz

Fast Power Modules

International
IOR Rectifier

Part Number		RRM (V)	$I_{FAV@T_C}$ (A) (C)		I_{FSM} 50 Hz 60Hz (A)		V_{FM} (V)	t_{rr} (nS)	$R_{\theta JC}$ DC (K/W)	Notes	Fax-on-Demand
Doubler Circuit	Center Tap Circuit										

Diode/Diode

INT-A-Pak

IRKJL132-06S10		600	140	100	2500	2600	.68	1000	0.10	11 20 21 23 24 25	
<i>IRKDL132-06S10</i>	<i>IRKCL132-06S10</i>										
IRKJL132-10S10		1000	140	100	2500	2600	.68	1000	0.10	11 20 21 23 24 25	
<i>IRKDL132-10S10</i>	<i>IRKCL132-10S10</i>										
IRKJL132-12S20		1200	140	100	2500	2600	.68	2000	0.10	11 20 21 23 24 25	
<i>IRKDL132-12S20</i>	<i>IRKCL132-12S20</i>										
IRKJL132-14S20		1400	140	100	2500	2600	.68	2000	0.10	11 20 21 23 24 25	
<i>IRKDL132-14S20</i>	<i>IRKCL132-14S20</i>										

Diode/Diode

MAGN-A-Pak

IRKJL240-20S30		2000	240	100	6300	6600	.71	3000	0.063	11 20 21 23 24 25	
<i>IRKDL240-20S30</i>	<i>IRKCL240-20S30</i>										
IRKJL240-25S30		2500	240	100	6300	6600	.71	3000	0.063	11 20 21 23 24 25	
<i>IRKDL240-25S30</i>	<i>IRKCL240-25S30</i>										
IRKJL240-06S10		600	250	100	6750	7100	.62	1000	0.063	11 20 21 23 24 25	
<i>IRKDL240-06S10</i>	<i>IRKCL240-06S10</i>										
IRKJL240-10S10		1000	250	100	6750	7100	.62	1000	0.063	11 20 21 23 24 25	
<i>IRKDL240-10S10</i>	<i>IRKCL240-10S10</i>										
IRKJL240-12S20		1200	250	100	6750	7100	.62	2000	0.063	11 20 21 23 24 25	
<i>IRKDL240-12S20</i>	<i>IRKCL240-12S20</i>										
IRKJL240-14S20		1400	250	100	6750	7100	.62	2000	0.063	11 20 21 23 24 25	
<i>IRKDL240-14S20</i>	<i>IRKCL240-14S20</i>										
Not available		1600	460	82	11100	11800	.05	2000	0.032	11 20 21 23 24 25	
<i>IRKDL450-16S20</i>	<i>Not available</i>										
Not available		2000	460	82	11100	11800	.05	2000	0.032	11 20 21 23 24 25	
<i>IRKDL450-20S20</i>	<i>Not available</i>										
Not available		2500	460	82	11100	11800	.05	2000	0.032	11 20 21 23 24 25	
<i>IRKDL450-25S20</i>	<i>Not available</i>										

NOTES:

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10 tr conditions: $T_j = 25^\circ\text{C}$, IF = 1A to VR=30V, $-diF/dt = 100\text{A}/\mu\text{s}$. Values shown in parentheses.

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