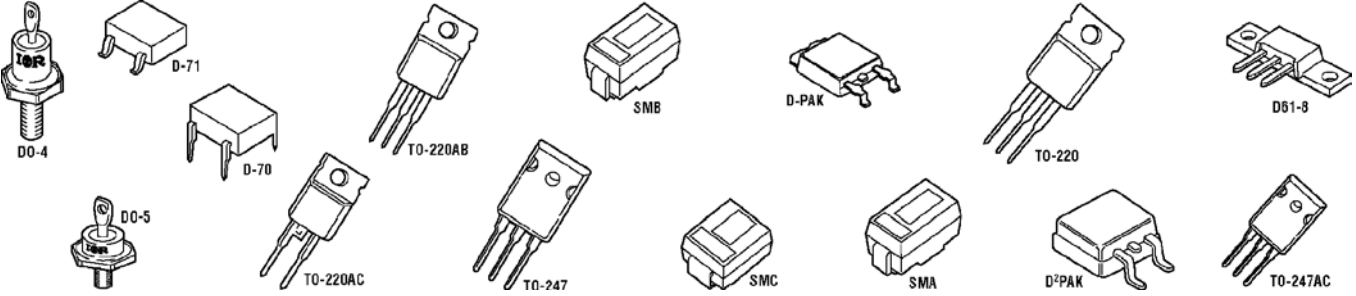


Rectifiers (continued)



Silicon Standard Recovery Rectifiers 6 to 85 Amps — Stud Mount

Mfr.'s Type*	V _{RRM} (V)	I _{FSM} (A)	I _{F(AV)} A @ Max. T _c (°C)	Companion Series	Package	Mfr.'s Type*	V _{RRM} (V)	I _{FSM} (A)	I _{F(AV)} A @ Max. T _c (°C)	Companion Series	Package	Mfr.'s Type*	V _{RRM} (V)	I _{FSM} (A)	I _{F(AV)} A @ Max. T _c (°C)	Companion Series	Package
1N1199A	50	240	12 @ 150	—	DO-4	1N1186	200	500	35 @ 140	—	DO-5	16F60	600	310	16 @ 140	—	DO-4
1N3208	50	250	15 @ 165	—	DO-5	40HF20	200	500	40 @ 140	41HF	DO-5	1N1190	600	500	35 @ 140	—	DO-5
1N1183	50	500	35 @ 140	—	DO-5	1N1186A	200	800	40 @ 150	—	DO-5	1N1190A	600	800	40 @ 150	—	DO-5
1N1183A	50	800	40 @ 150	—	DO-5	1N2131A	200	900	60 @ 140	—	DO-5	1N2138A	600	900	60 @ 140	—	DO-5
1N2128A	50	900	60 @ 140	—	DO-5	70HF20†	200	1050	70 @ 140	71HF	DO-5	1N3671A	800	240	12 @ 150	—	DO-4
6F10	100	141	6 @ 158	—	DO-4	85HF20†	200	1500	85 @ 140	86HF	DO-5	16F80	800	310	16 @ 140	—	DO-4
12F10	100	235	12 @ 144	—	DO-4	1N1203A	300	240	12 @ 150	—	DO-4	1N3766	800	500	35 @ 140	—	DO-5
1N1200A	100	240	12 @ 150	—	DO-4	1N2133A	300	900	60 @ 140	—	DO-5	40HF80	800	500	40 @ 140	41HF	DO-5
1N3209	100	250	15 @ 165	—	DO-5	12F40	400	235	12 @ 144	—	DO-4	70HF80†	800	1050	70 @ 140	71HF	DO-5
16F10	100	310	16 @ 140	—	DO-4	1N1204A	400	240	12 @ 150	—	DO-4	85HF80†	800	1500	85 @ 140	86HF	DO-5
1N1184	100	500	35 @ 140	—	DO-5	16F40	400	310	16 @ 140	—	DO-4	12F100	1000	235	12 @ 144	—	DO-4
40HF10	100	500	40 @ 140	41HF	DO-5	1N1188	400	500	35 @ 140	—	DO-5	1N3673A	1000	240	12 @ 150	—	DO-4
1N1184A	100	800	40 @ 150	—	DO-5	40HF40	400	500	40 @ 140	41HF	DO-5	16F100	1000	310	16 @ 140	—	DO-4
1N2129A	100	900	60 @ 140	—	DO-5	1N1188A	400	800	40 @ 150	—	DO-5	1N3768	1000	500	35 @ 140	—	DO-5
70HF10†	100	1050	70 @ 140	71HF	DO-5	70HF40†	400	1050	70 @ 140	71HF	DO-5	40HF100	1000	500	40 @ 140	41HF	DO-5
85HF10†	100	1500	85 @ 140	86HF	DO-5	85HF40†	400	1500	85 @ 140	86HF	DO-5	70HF100†	1000	1050	70 @ 140	71HF	DO-5
1N1201A	150	240	12 @ 150	—	DO-4	1N1205A	500	240	12 @ 150	—	DO-4	85HF100†	1000	1500	85 @ 140	86HF	DO-5
1N1185	150	500	35 @ 140	—	DO-5	1N1189	500	500	35 @ 140	—	DO-5	6F120	1200	141	6 @ 158	—	DO-4
1N2130A	150	900	60 @ 140	—	DO-5	1N2137A	500	900	60 @ 140	—	DO-5	16F120	1200	310	16 @ 140	—	DO-4
6F20	200	141	6 @ 158	—	DO-4	6F60	600	141	6 @ 158	—	DO-4	85HF120†	1200	1500	85 @ 140	86HF	DO-5
1N1202A	200	240	12 @ 150	—	DO-4	12F60	600	235	12 @ 144	—	DO-4	40HF160	1600	500	40 @ 140	41HF	DO-5
1N3210	200	250	15 @ 165	—	DO-5	1N1206A	600	240	12 @ 150	—	DO-4	85HF160†	1600	1500	85 @ 140	86HF	DO-5
16F20	200	310	16 @ 140	—	DO-4	1N3214	600	250	15 @ 165	—	DO-5	—	—	—	—	—	—

*Cathode-to-stud; for anode-to-stud, add "R" to basic number (example: 12FR10, 1N3208R, 40HFR10). †Companion series provided with flexible lead.

Single Phase Bridge Rectifiers

Surface Mount Package — D-71

Mfr.'s Type	V _{RRM} (V)	I _O *		V _{FM} **		I _{FSM} † (A)		I _{RM} (μA)	R _{θJC} (K/W)
		(A)	@ T _c (°C)	(V)	@ I _{FM} (A)	@ 50 Hz	@ 60 Hz		
DF005S	50	1	40	1	1	30	31	5	60
DF01S	100	1	40	1	1	30	31	5	60
DF02S	200	1	40	1	1	30	31	5	60
DF04S	400	1	40	1	1	30	31	5	60

Thru Hole Package — D-70

Mfr.'s Type	V _{RRM} (V)	I _O *		V _{FM} **		I _{FSM} † (A)		I _{RM} (μA)	R _{θJC} (K/W)
		(A)	@ T _c (°C)	(V)	@ I _{FM} (A)	@ 50 Hz	@ 60 Hz		
DF01M	100	1	40	1	1	30	31	5	60
DF02M	200	1	40	1	1	30	31	5	60
DF04M	400	1	40	1	1	30	31	5	60
DF06M	600	1	40	1	1	30	31	5	60

*T_A. **T_J Max. = 150°C. †@100% V_{RRM} and T_J Max. = 150°C.

Schottky Rectifier Diodes

Mfr.'s Type	V _{RRM} (V)	I _{F(AV)} @ T _c (A)	V _{FM} @ I _{FM} (V)	T _J Max. (°C)	Package
MBR1035	35	10.0	0.840	150	TO-220AC
MBR1535CT	35	15.0	0.840	150	TO-220AB
MBR1635	35	16.0	0.630	150	TO-220AC
MBR2035CT	35	20.0	0.840	150	TO-220AB
MBR2535CT	35	30.0	0.820	150	TO-220AB
MBR3035WT	35	30.0	0.760	150	TO-247
MBR735	35	7.5	0.840	150	TO-220AC
MBR1045	45	10.0	0.840	150	TO-220AC
MBR1545CT	45	15.0	0.840	150	TO-220AB
MBR1645	45	16.0	0.630	150	TO-220AC
MBR2045CT	45	20.0	0.840	150	TO-220AB
MBR2545CT	45	30.0	0.820	150	TO-220AB
MBR3045CT	45	30.0	0.760	150	TO-220AB
MBR3045WT	45	30.0	0.760	150	TO-247
MBR4045CT	45	40.0	0.700	150	TO-220AB
MBR4045WT	45	40.0	0.720	150	TO-247
MBR6045WT	45	60.0	0.550	150	TO-247
MBR745	45	7.5	0.840	150	TO-220AC
MBR4060WT	60	40.0	0.770	150	TO-247
MBR2080CT	80	20.0	0.800	150	TO-220AB
MBR2090CT	90	20.0	0.800	150	TO-220AB
MBR20100CT	100	20.0	0.800	150	TO-220AB

Schottky Rectifier Diodes — Surface Mount

Mfr.'s Type	V _{RRM} (V)	I _{F(AV)} @ T _c (A)	V _{FM} @ I _{FM} (V)	T _J Max. (°C)	Package
10BQ015	15	1.0	0.300	100	SMB
30BQ015	15	3.0	0.300	100	SMC
30WQ03FN	30	3.5	0.350	150	D-PAK
50WQ03FN	30	5.5	0.350	150	D-PAK
10BQ040	40	1.5	0.560	150	SMA
10MQ040N	40	2.1	0.049	150	SMB
30BQ040	40	3.0	0.450	150	SMC
30WQ04FN	40	3.5	0.490	150	D-PAK
50WQ04FN	40	5.5	0.440	150	D-PAK
10MQ060N	60	3.0	0.520	150	SMC
30WQ06FN	60	5.5	0.540	150	D-PAK
50WQ06FN	60	1.5	0.630	150	SMA
30BQ100	100	3.0	0.620	175	SMC

Ultrafast Rectifier

Mfr.'s Type	Configuration	V _{RRM} (V)	I _F Avg.	Package
MURD620CT	Common Cathode	200	3 A × 2	D-PAK
MUR820	Single Diode	200	8 A × 2	TO-220

Ultrafast Rectifier (continued)

Mfr.'s Type	Configuration	V _{RRM} (V)	I _F Avg.	Package
MUR1520	Single Diode	200	15 A × 2	TO-220
MUR1620CT	Common Cathode	200	8 A × 2	TO-220

Center Tap Schottky Rectifier Diodes

Mfr.'s Type	V _{RRM} (V)	I _{F(AV)} @ T _c (A)	V _{FM} @ I _{FM} (V)	T _J Max. (°C)	Package
32CTQ030	30	30	0.53	150	TO-220AB
30CPQ045	45	30	0.64	150	TO-247AC
30CTQ045	45	30	0.70	175	TO-220AB
16CTQ100	100	16	0.69	175	TO-220AB
16CTQ100S	100	16	0.69	175	D ² PAK
30CPQ100	100	30	0.67	175	TO-247AC
40CPQ100	100	40	0.61	175	TO-247AC

Modules

85CNQ015A	15	80	0.32	100	D61-8
82CNQ030A	30	80	0.35	150	D61-8
80CNQ045A	45	80	0.47	150	D61-8

Standard Recovery Discrete Diodes

Mfr.'s Type	V _{RRM} (V)	I _{F(AV)} Comp. (A)	@ TC (°C)	V _{FM} @ 25°C (V)	R _{TH(JC)} (°C/W) Max.	Package
1N2054R	—50	250	150	1.35	2.000	DO-9 (3/4)
1N1184RA	—100	40	150	1.30	1.100	DO-5 (1/4)
1N2131RA	—200	60	140	1.30	0.650	DO-5 (1/4)
70HFR20	—200	70	140	1.35	0.450	DO-5 (1/4)
85HFR20	—200	85	140	1.20	0.350	DO-5 (1/4)
150KR20A	—200	150	150	1.33	0.250	DO-8 (3/8)
1N1187R	—300	35	140	1.70	1.000	DO-5 (1/4)
1N4049R	—300	275	120	1.35	0.180	DO-9 (3/4)
1N4052R	—300	275	120	1.35	0.180	DO-9 (3/4)
70HFR40	—400	70	140	1.35	0.450	DO-5 (1/4)

Standard Recovery Discrete Diodes (continued)

Mfr.'s Type	V _{RRM} (V)	I _{F(AV)} Comp. (A)	@ TC (°C)	V _{FM} @ 25°C (V)	R _{TH(JC)} (°C/W) Max.	Package
85HFR40	—400	85	140	1.20	0.350	DO-5 (1/4)
300UR40A	—400	300	130	1.40	0.180	DO-9 (3/4)
1N1190R	—600	35	140	1.70	1.000	DO-5 (1/4)
1N1190RA	—600	40	150	1.30	1.100	DO-5 (1/4)
70HFR60	—600	70	140	1.35	0.450	DO-5 (1/4)
85HFR60	—600	85	140	1.20	0.350	DO-5 (1/4)
150KR60A	—600	150	133	1.33	0.250	DO-8 (3/8)
300UR60A	—600	300	130	1.40	0.180	DO-9 (3/4)
85HFR80	—800	85	140	1.20	0.350	DO-5 (1/4)
150KR80A	—800	150	150	1.33	0.250	DO-8 (3/8)

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