

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} (V)	$@I_{FM}$ (A)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) °C/W	Notes	Fax-on-Demand
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Standard Recovery

										D ² Pak
10ETS08S	800	10	105	1.1	10	170	175	2.5	1 12	
10ETS12S	1200	10	105	1.1	10	170	175	2.5	1 12	
10ETS16S	1600	10	105	1.1	10	170	175	2.5	1 12	
20ETS08S	800	20	105	1.1	20	250	260	1.3	1 12	82102
20ETS12S	1200	20	105	1.1	20	250	260	1.3	1 12	82102
20ETS16S	1600	20	105	1.1	20	250	260	1.3	1 12	82102

										D-Pak	
8EWS08S	800	8	95	1.1	8.0	170	175	3.0	1	12	
8EWS12S	1200	8	95	1.1	8.0	170	175	3.0	1	12	
8EWS16S	1600	8	95	1.1	8.0	170	175	3.0	1	12	

										TO-220AC (2-pin)
10ETS08	800	10	105	1.1	10	170	175	2.5	12	
10ETS12	1200	10	105	1.1	10	170	175	2.5	12	

NOTES:

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|--|--|--|---|
| 1 Available on tape-and-reel | 6 I_o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I_{FSM} : 100% VRRM reapplied, $T_j=T_j$ max.=150°C | 7 R_{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I_{RM} : $T_j = 150^\circ\text{C}$ | 8 Value given for R_{thJC} is per module | 15 For I_{RM} : $T_j=25^\circ\text{C}$ | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V_{FM} measured at $T_j=25^\circ\text{C}$ | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V_{FM} measured at $T_i=T_j$ max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I_{FSM} : 100% VRRM reapplied, $T_j=T_j$ max. | | |

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz 60 Hz (A) (A)	R _{θJC} (DC) °C/W	Notes	Fax-on-Demand		
Standard Recovery										
TO-220AC (2-pin)										
10ETS16	1600	10	105	1.1	10	170	175	2.5	12	
20ETS08	800	20	105	1.1	20	250	260	1.3	12	82101
20ETS12	1200	20	105	1.1	20	250	260	1.3	12	82101
20ETS16	1600	20	105	1.1	20	250	260	1.3	12	82101
TO-247AC (2-pin)										
40EPS08	800	40	105	1.1	40	400	380	0.60	12	82104
40EPS12	1200	40	105	1.1	40	400	380	0.60	12	82104
40EPS16	1600	40	105	1.1	40	400	380	0.60	12	82104
60EPS08	800	60	105	1.1	60	700	735	0.45	12	
60EPS12	1200	60	105	1.1	60	700	735	0.45	12	
60EPS16	1600	60	105	1.1	60	700	735	0.45	12	

NOTES:

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|---|--|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> | <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} I_{FM} (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ °C/W	Notes	Fax-on-Demand
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Standard Recovery

SMB

SM4001TR	50	1	75	1.1	28	30	30	1 9 12
SM4002TR	100	1	75	1.1	28	30	30	1 9 12
SM4003TR	200	1	75	1.1	28	30	30	1 9 12
SM4004TR	400	1	75	1.1	28	30	30	1 9 12
SM4005TR	600	1	75	1.1	28	30	30	1 9 12
SM4006TR	800	1	75	1.1	28	30	30	1 9 12
SM4007TR	1000	1	75	1.1	28	30	30	1 9 12

B-47PP

8AF05NPP	50	50	150	1.45	600	628	0.6	9 12 16	20086
8AF1NPP	100	50	150	1.45	600	628	0.6	9 12 16	20086
8AF2NPP	200	50	150	1.45	600	628	0.6	9 12 16	20086
8AF4NPP	400	50	150	1.45	600	628	0.6	9 12 16	20086

NOTES:

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|--|---|--|---|
| 1 Available on tape-and-reel | 6 I_o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I_{FSM} : 100% V_{RRM} reapplied, $T_j=T_j$ max.=150°C | 7 R_{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I_{RM} : $T_j = 150^\circ C$ | 8 Value given for R_{thJC} is per module | 15 For I_{RM} : $T_j=25^\circ C$ | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V_{FM} measured at $T_j=25^\circ C$ | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V_{FM} measured at $T_j=T_j$ max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I_{FSM} : 100% V_{RRM} reapplied, $T_j=T_j$ max. | | |

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ °C/W	Notes	Fax-on-Demand
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Standard Recovery

DO-203AA (DO-4)

6F10	100	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F20	200	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F40	400	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F60	600	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F80	800	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F100	1000	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F120	1200	6	158	1.1	134	141	2.5	9 12 17 18	20009
1N1199A	50	12	150	1.35	230	240	2	9 12 17	20084
12F10	100	12	144	1.26	225	235	2	9 12 17 18	20009
1N1200A	100	12	150	1.35	230	240	2	9 12 17	20084
1N1201A	150	12	150	1.35	230	240	2	9 12 17	20084
1N1202A	200	12	150	1.35	230	240	2	9 12 17	20084
12F20	200	12	144	1.26	225	235	2	9 12 17 18	20009
1N1203A	300	12	150	1.35	230	240	2	9 12 17	20084
12F40	400	12	144	1.26	225	235	2	9 12 17 18	20009

NOTES:

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|--|---|--|---|
| 1 Available on tape-and-reel | 6 I_o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I_{FSM} : 100% V_{RRM} reapplied, $T_j=T_j$ max.=150°C | 7 R_{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I_{RM} : $T_j = 150^\circ C$ | 8 Value given for R_{thJC} is per module | 15 For I_{RM} : $T_j=25^\circ C$ | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V_{FM} measured at $T_j=25^\circ C$ | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V_{FM} measured at $T_j=T_j$ max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I_{FSM} : 100% V_{RRM} reapplied, $T_j=T_j$ max. | | |

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @πX I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Standard Recovery									DO-203AA (DO-4)
1N1204A	400	12	150	1.35	230	240	2	9 12 17	20084
1N1205A	500	12	150	1.35	230	240	2	9 12 17	20084
1N1206A	600	12	150	1.35	230	240	2	9 12 17	20084
12F60	600	12	144	1.26	225	235	2	9 12 17 18	20009
1N3670A	700	12	150	1.35	230	240	2	9 12 17	20084
12F80	800	12	144	1.26	225	235	2	9 12 17 18	20009
1N3671A	800	12	150	1.35	230	240	2	9 12 17	20084
1N3672A	900	12	150	1.35	230	240	2	9 12 17	20084
12F100	1000	12	144	1.26	225	235	2	9 12 17 18	20009
1N3673A	1000	12	150	1.35	230	240	2	9 12 17	20084
12F120	1200	12	144	1.26	225	235	2	9 12 17 18	20009
16F10	100	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F20	200	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F40	400	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F60	600	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F80	800	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F100	1000	16	140	1.23	295	310	1.6	9 12 17 18	20009

NOTES:

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|--|--|--|---|
| 1 Available on tape-and-reel | 6 I _o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max.=150°C | 7 R _{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I _{rm} : T _j = 150°C | 8 Value given for R _{thJC} is per module | 15 For I _{rm} : T _j =25°C | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V _{fm} measured at T _j =25°C | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V _{FM} measured at T _j =T _j max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max. | | |

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @πX I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Standard Recovery									DO-203AA (DO-4)
16F120	1200	16	140	1.23	295	310	1.6	9 12 17 18	20009
25F10	100	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F20	200	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F40	400	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F60	600	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F80	800	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F100	1000	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F120	1200	25	120	0.9	300	314	1.5	9 12 17 18	80018
									DO-203AB (DO-5)
1N3208	50	15	150	1.5	239	250	0.65	12 17	20010
1N3209	100	15	150	1.5	239	250	0.65	12 17	20010
1N3210	200	15	150	1.5	239	250	0.65	12 17	20010
1N3211	300	15	150	1.5	239	250	0.65	12 17	20010
1N3212	400	15	150	1.5	239	250	0.65	12 17	20010
1N3213	500	15	150	1.5	239	250	0.65	12 17	20010
1N3214	600	15	150	1.5	239	250	0.65	12 17	20010

NOTES:

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|--|--|--|---|
| 1 Available on tape-and-reel | 6 I _o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max.=150°C | 7 R _{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I _{rm} : T _j = 150°C | 8 Value given for R _{thJC} is per module | 15 For I _{rm} : T _j =25°C | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V _{fm} measured at T _j =25°C | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V _{FM} measured at T _j =T _j max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max. | | |

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @πX I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Standard Recovery									DO-203AB (DO-5)
1N1183	50	35	140	1.7	480	500	1	9 12 17	20087
1N1184	100	35	140	1.7	480	500	1	9 12 17	20087
1N1185	150	35	140	1.7	480	500	1	9 12 17	20087
1N1186	200	35	140	1.7	480	500	1	9 12 17	20087
1N1187	300	35	140	1.7	480	500	1	9 12 17	20087
1N1188	400	35	140	1.7	480	500	1	9 12 17	20087
1N1189	500	35	140	1.7	480	500	1	9 12 17	20087
1N1190	600	35	140	1.7	480	500	1	9 12 17	20087
1N3765	700	35	140	1.8	380	400	1	9 12 17	20087
1N3766	800	35	140	1.8	380	400	1	9 12 17	20087
1N3767	900	35	140	1.8	380	400	1	9 12 17	20087
1N3768	1000	35	140	1.8	380	400	1	9 12 17	20087
1N1183A	50	40	150	1.3	765	800	1.1	9 12 17	20087
1N1184A	100	40	150	1.3	765	800	1.1	9 12 17	20087
40HF10	100	40	140	1.3	480	500	1	9 12 17 18	20014
1N1185A	150	40	150	1.3	765	800	1.1	9 12 17	20087
1N1186A	200	40	150	1.3	765	800	1.1	9 12 17	20087

NOTES:

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|--|--|--|---|
| 1 Available on tape-and-reel | 6 I _o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max.=150°C | 7 R _{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I _{rm} : T _j = 150°C | 8 Value given for R _{thJC} is per module | 15 For I _{rm} : T _j =25°C | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V _{fm} measured at T _j =25°C | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V _{FM} measured at T _j =T _j max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max. | | |

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ °C/W	Notes	Fax-on-Demand
Standard Recovery								DO-203AB (DO-5)	
40HF20	200	40	140	1.3	480	500	1	9 12 17 18	20014
1N1187A	300	40	150	1.3	765	800	1.1	9 12 17	20087
1N1188A	400	40	150	1.3	765	800	1.1	9 12 17	20087
40HF40	400	40	140	1.3	480	500	1	9 12 17 18	20014
1N1189A	500	40	150	1.3	765	800	1.1	9 12 17	20087
40HF60	600	40	140	1.3	480	500	1	9 12 17 18	20014
1N1190A	600	40	150	1.3	765	800	1.1	9 12 17	20087
40HF80	800	40	140	1.3	480	500	1	9 12 17 18	20014
40HF100	1000	40	140	1.3	480	500	1	9 12 17 18	20014
40HF120	1200	40	140	1.3	480	500	1	9 12 17 18	20014
40HF140	1400	40	110	1.3	480	500	1	9 12 17 18	20014
40HF160	1600	40	110	1.3	480	500	1	9 12 17 18	20014
1N2128A	50	60	140	1.3	860	900	0.65	9 12 17	20087
1N2129A	100	60	140	1.3	860	900	0.65	9 12 17	20087
1N2130A	150	60	140	1.3	860	900	0.65	9 12 17	20087
1N2131A	200	60	140	1.3	860	900	0.65	9 12 17	20087
1N2133A	300	60	140	1.3	860	900	0.65	9 12 17	20087

NOTES:

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|--|---|--|---|
| 1 Available on tape-and-reel | 6 I_o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I_{FSM} : 100% V_{RRM} reapplied, $T_j=T_j$ max.=150°C | 7 R_{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I_{RM} : $T_j = 150^\circ\text{C}$ | 8 Value given for R_{thJC} is per module | 15 For I_{RM} : $T_j=25^\circ\text{C}$ | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V_{FM} measured at $T_j=25^\circ\text{C}$ | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V_{FM} measured at $T_j=T_j$ max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I_{FSM} : 100% V_{RRM} reapplied, $T_j=T_j$ max. | | |

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @πX I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Standard Recovery								DO-203AB (DO-5)	
1N2135A	400	60	140	1.3	860	900	0.65	9 12 17	20087
1N2137A	500	60	140	1.3	860	900	0.65	9 12 17	20087
1N2138A	600	60	140	1.3	860	900	0.65	9 12 17	20087
70HF10	100	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF20	200	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF40	400	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF60	600	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF80	800	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF100	1000	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF120	1200	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF140	1400	70	110	1.35	1000	1050	0.45	9 12 17 18	20014
70HF160	1600	70	110	1.35	1000	1050	0.45	9 12 17 18	20014
88HF10	100	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF10	100	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
85HF20	200	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF20	200	85	140	1.2	1450	1500	0.35	9 12 17	20014
88HF40	400	85	140	1.2	1450	1500	0.35	9 12 17	20014

NOTES:

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|--|--|--|---|
| 1 Available on tape-and-reel | 6 I _o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max.=150°C | 7 R _{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I _{rm} : T _j = 150°C | 8 Value given for R _{thJC} is per module | 15 For I _{rm} : T _j =25°C | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V _{fm} measured at T _j =25°C | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V _{FM} measured at T _j =T _j max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max. | | |

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ °C/W	Notes	Fax-on-Demand
Standard Recovery								DO-203AB (DO-5)	
85HF40	400	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
85HF60	600	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF60	600	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF80	800	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF80	800	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF100	1000	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF100	1000	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF120	1200	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF120	1200	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF140	1400	85	110	1.2	1450	1500	0.35	9 12 17 18	20014
85HF160	1600	85	110	1.2	1450	1500	0.35	9 12 17 18	20014

NOTES:

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|---|---|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For I_{FSM}: 100% V_{RRM} reapplied, $T_j=T_j$ max.=150°C</p> <p>3 For I_{RM}: $T_j = 150^\circ\text{C}$</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 V_{FM} measured at $T_j=T_j$ max.</p> | <p>6 I_o at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{thJC} is per module</p> <p>9 V_{FM} measured at $T_j=25^\circ\text{C}$</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{FSM}: 100% V_{RRM} reapplied, $T_j=T_j$ max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{RM}: $T_j=25^\circ\text{C}$</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
|---|---|---|--|

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_{HS} (°C)	V_{FM} @ I_{FM} (V) (A)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta J-HS}$ °C/W	Notes	Fax-on-Demand
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Standard Recovery

DO-200AA (A-Puk)

SD300C25C	2500	540	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C28C	2800	540	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C32C	3200	540	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C04C	400	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C08C	800	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C12C	1200	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C16C	1600	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C20C	2000	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD700C30L	3000	700	55	1.66	1000	6310	6600	0.05	5 12 23 25	82096
SD700C36L	3600	700	55	1.66	1000	6310	6600	0.05	5 12 23 25	82096
SD700C40L	4000	700	55	1.66	1000	6310	6600	0.05	5 12 23 25	82096
SD700C45L	4500	700	55	1.66	1000	6310	6600	0.05	5 12 23 25	82096

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 µs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz 60 Hz (A) (A)	R _{θJHS} °C/W	Notes	Fax-on-Demand	
Standard Recovery							DO-200AA (A-Puk)		
SD400C04C	400	800	55	1.86	1930	6940 7265	0.073	5 12 23	82084
SD400C08C	800	800	55	1.86	1930	6940 7265	0.073	5 12 23	82084
SD400C12C	1200	800	55	1.86	1930	6940 7265	0.073	5 12 23	82084
SD400C16C	1600	800	55	1.86	1930	6940 7265	0.073	5 12 23	82084
SD400C20C	2000	800	55	1.86	1930	6940 7265	0.073	5 12 23	82084
SD400C24C	2400	800	55	1.86	1930	6940 7265	0.073	5 12 23	82084
SD1100C25L	2500	910	55	1.44	1500	8830 9250	0.05	5 12 23	82073
SD1100C30L	3000	910	55	1.44	1500	8830 9250	0.05	5 12 23	82073
SD1100C32L	3200	910	55	1.44	1500	8830 9250	0.05	5 12 23	82073
SD800C40L	4000	1065	55	1.95	2000	10250 10750	0.031	3 4 5	82085
SD800C45L	4500	1065	55	1.95	2000	10250 10750	0.031	3 4 5	82085
SD1100C25C	2500	1100	55	1.44	1500	8830 9250	0.038	5 12 23	82072
SD1100C30C	3000	1100	55	1.44	1500	8830 9250	0.038	5 12 23	82072
SD1100C32C	3200	1100	55	1.44	1500	8830 9250	0.038	5 12 23	82072

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _{HS} (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJ-HS} °C/W	Notes	Fax-on-Demand	
Standard Recovery									DO-200AB (B-Puk)	
SD1100C04L	400	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD1100C08L	800	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD1100C12L	1200	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD1100C16L	1600	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD1100C20L	2000	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD800C24L	2400	1180	55	1.66	2000	11440	11980	0.031	3 4 5	82085
SD800C30L	3000	1180	55	1.66	2000	11440	11980	0.031	3 4 5	82085
SD800C36L	3600	1180	55	1.66	2000	11440	11980	0.031	3 4 5	82085
SD1100C04C	400	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1100C08C	800	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1100C12C	1200	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1100C16C	1600	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1100C20C	2000	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1500C04L	400	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086

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| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 μs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _{HS} (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJ-HS} °C/W	Notes	Fax-on-Demand	
Standard Recovery									DO-200AB (B-Puk)	
SD1500C08L	800	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C12L	1200	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C16L	1600	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C20L	2000	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C25L	2500	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C30L	3000	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1700C40K	4000	1875	55	2.11	4000	16800	17600	0.02	5 12 23 25	82087
SD1700C45K	4500	1875	55	2.11	4000	16800	17600	0.02	5 12 23 25	82087
SD1700C24K	2400	2080	55	1.81	4000	20200	21150	0.02	5 12 23 25	82087
SD1700C30K	3000	2080	55	1.81	4000	20200	21150	0.02	5 12 23 25	82087
SD1700C36K	3600	2080	55	1.81	4000	20200	21150	0.02	5 12 23 25	82087
SD2000C04L	400	2100	55	1.55	3000	20100	21000	0.031	5 12 23	82088
SD2000C08L	800	2100	55	1.55	3000	20100	21000	0.031	5 12 23	82088
SD2000C10L	1000	2100	55	1.55	3000	20100	21000	0.031	5 12 23	82088

NOTES:

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|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 μs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _{HS} (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz 60 Hz (A) (A)	R _{θJ-HS} °C/W	Notes	Fax-on-Demand
Standard Recovery								
DO-200AC (K-Puk)								
SD2500C12K	1200	3000	55	1.41	4000	26050 27300	0.02	5 12 23 82089
SD2500C16K	1600	3000	55	1.41	4000	26050 27300	0.02	5 12 23 82089
SD2500C20K	2000	3000	55	1.41	4000	26050 27300	0.02	5 12 23 82089
SD2500C25K	2500	3000	55	1.41	4000	26050 27300	0.02	5 12 23 82089
SD3000C04K	400	3800	55	1.22	5000	30100 31500	0.02	5 12 23 82090
SD3000C08K	800	3800	55	1.22	5000	30100 31500	0.02	5 12 23 82090
SD3000C10K	1000	3800	55	1.22	5000	30100 31500	0.02	5 12 23 82090
SD4000C30R	3000	4450	55	1.44	5000	48200 50470	0.01	5 12 23 82033
SD4000C34R	3400	4450	55	1.44	5000	48200 50470	0.01	5 12 23 82033
SD4000C38R	3800	4450	55	1.44	5000	48200 50470	0.01	5 12 23 82033
SD4000C40R	4000	4450	55	1.44	5000	48200 50470	0.01	5 12 23 82033
SD5000C20R	2000	5570	55	1.32	3000	57000 59700	0.01	5 12 23 82034
SD5000C24R	2400	5570	55	1.32	3000	57000 59700	0.01	5 12 23 82034
SD5000C26R	2600	5570	55	1.32	3000	57000 59700	0.01	5 12 23 82034

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|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 μs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _{HS} (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _{θJ-HS} °C/W	Notes	Fax-on-Demand	
Standard Recovery									B-44 (R-Puk)	
SD5000C30R	3000	5570	55	1.32	3000	57000	59700	0.01	5 12 23	82034
SD6000C12R	1200	6690	55	1.22	3000	64250	67280	0.01	5 12 23	82035
SD6000C16R	1600	6690	55	1.22	3000	64250	67280	0.01	5 12 23	82035
SD6000C20R	2000	6690	55	1.22	3000	64250	67280	0.01	5 12 23	82035
SD6000C25R	2500	6690	55	1.22	3000	64250	67280	0.01	5 12 23	82035
SD8500C04R	400	9570	55	0.97	10000	80300	84100	0.01	5 12 23	82035
SD8500C06R	600	9570	55	0.97	10000	80300	84100	0.01	5 12 23	82035

NOTES:

- Available on tape-and-reel
- For I_{FSM} : 100% V_{RRM} reapplied, $T_j = T_j$ max.=150°C
- For I_{RM} : $T_j = 150^\circ\text{C}$
- Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- V_{FM} measured at $T_j = T_j$ max.
- I_o at ambient temperature
- R_{th} is junction-to-ambient
- Value given for R_{thJC} is per module
- V_{FM} measured at $T_j = 25^\circ\text{C}$
- RMS isolation voltage=2700V - 50Hz
- RMS isolation voltage=4000V - 50Hz
- For I_{FSM} : 100% V_{RRM} reapplied, $T_j = T_j$ max.
- Additional packages available
- Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- For I_{RM} : $T_j = 25^\circ\text{C}$
- Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 1N3288 series also available.
- V_{FM} for JEDEC types is registered at max T_j .
- Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- DC operation, double side cooled
- $I_{F(AV)}$ and R_{th} measured to heat sink
- I_{FSM} measured at 50% V_{RRM} reapplied
- 10 μs square pulse, $T_j = T_j$ max
- RMS isolation voltage=3500V - 50Hz
- Available with spacers and longer screws
- RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} @ πX $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ °C/W	Notes	Fax-on-Demand
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Avalanche

DO-203AA (DO-4)

A6F40	400	6	158	1.1	134	141	2.5	9 12 17 18	20009
A6F60	600	6	158	1.1	134	141	2.5	9 12 17 18	20009
A6F80	800	6	158	1.1	134	141	2.5	9 12 17 18	20009
A6F100	1000	6	158	1.1	134	141	2.5	9 12 17 18	20009
A6F120	1200	6	158	1.1	134	141	2.5	9 12 17 18	20009
A12F40	400	12	144	1.26	225	235	2	9 12 17 18	20009
A12F60	600	12	144	1.26	225	235	2	9 12 17 18	20009
A12F80	800	12	144	1.26	225	235	2	9 12 17 18	20009
A12F100	1000	12	144	1.26	225	235	2	9 12 17 18	20009
A12F120	1200	12	144	1.26	225	235	2	9 12 17 18	20009
A16F40	400	16	140	1.23	295	310	1.6	9 12 17 18	20009
A16F60	600	16	140	1.23	295	310	1.6	9 12 17 18	20009

NOTES:

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|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 µs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @πX I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Avalanche									DO-203AA (DO-4)
A16F80	800	16	140	1.23	295	310	1.6	9 12 17 18	20009
A16F100	1000	16	140	1.23	295	310	1.6	9 12 17 18	20009
A16F120	1200	16	140	1.23	295	310	1.6	9 12 17 18	20009
A25F40	400	25	120	0.9	300	314	1.5	12 17	82018
A25F60	600	25	120	0.9	300	314	1.5	12 17	82018
A25F80	800	25	120	0.9	300	314	1.5	12 17	82018
A25F100	1000	25	120	0.9	300	314	1.5	12 17	82018
A25F120	1200	25	120	0.9	300	314	1.5	12 17	82018
40HA40	400	40	140	1.3	480	500	1	9 12 17 18	20014
40HA60	600	40	140	1.3	480	500	1	9 12 17 18	20014
40HA80	800	40	140	1.3	480	500	1	9 12 17 18	20014
40HA100	1000	40	140	1.3	480	500	1	9 12 17 18	20014
40HA120	1200	40	110	1.3	480	500	1	9 12 17 18	20014
40HA140	1400	40	110	1.3	480	500	1	9 12 17 18	20014

NOTES:

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|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 μs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ °C/W	Notes	Fax-on-Demand
Avalanche									DO-203AB (DO-5)
40HA160	1600	40	110	1.3	480	500	1	9 12 17 18	20014
70HA40	400	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HA60	600	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HA80	800	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HA100	1000	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HA120	1200	70	110	1.35	1000	1050	0.45	9 12 17 18	20014
70HA140	1400	70	110	1.35	1000	1050	0.45	9 12 17 18	20014
70HA160	1600	70	110	1.35	1000	1050	0.45	9 12 17 18	20014

NOTES:

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|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 µs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} @ πX $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

T-MODULE

Diode

T40HF10	100	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF20	200	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF40	400	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF60	600	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF80	800	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF100	1000	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF120	1200	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF140	1400	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF160	1600	40	85	1.3	480	500	1.36	2 8 9 27	20094
T70HF10	100	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T70HF20	200	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T70HF40	400	70	85	1.35	1000	1050	0.69	2 8 9 27	20094

NOTES:

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|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 µs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} @ πX $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

T-MODULE

Diode

T70HF60	600	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T70HF80	800	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T70HF100	1000	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T70HF120	1200	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T70HF140	1400	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T70HF160	1600	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T85HF10	100	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T85HF20	200	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T85HF40	400	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T85HF60	600	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T85HF80	800	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T85HF100	1000	85	85	1.27	1450	1500	0.62	2 8 9 27	20094

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 µs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @πX I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

T-MODULE

Diode

T85HF120	1200	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T85HF140	1400	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T85HF160	1600	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T110HF10	100	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF20	200	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF40	400	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF60	600	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF80	800	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF100	1000	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF120	1200	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF140	1400	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF160	1600	110	85	1.35	1700	1780	0.47	2 8 9 27	20094

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} @ πX $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

Add-A-Pak

Diode

IRKE56/04	400	60	100	1.51	1350	1420	0.5	2 8 9 27	27140
IRKE56/06	600	60	100	1.51	1350	1420	0.5	2 8 9 27	27140
IRKE56/08	800	60	100	1.51	1350	1420	0.5	2 8 9 27	27140
IRKE56/10	1000	60	100	1.51	1350	1420	0.5	2 8 9 27	27140
IRKE56/12	1200	60	100	1.51	1350	1420	0.5	2 8 9 27	27140
IRKE56/14	1400	60	100	1.51	1350	1420	0.5	2 8 9 27	27140
IRKE56/16	1600	60	100	1.51	1350	1420	0.5	2 8 9 27	27140
IRKE71/04	400	80	100	1.5	1500	1570	0.4	2 8 9 27	27140
IRKE71/06	600	80	100	1.5	1500	1570	0.4	2 8 9 27	27140
IRKE71/08	800	80	100	1.5	1500	1570	0.4	2 8 9 27	27140
IRKE71/10	1000	80	100	1.5	1500	1570	0.4	2 8 9 27	27140
IRKE71/12	1200	80	100	1.5	1500	1570	0.4	2 8 9 27	27140

NOTES:

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| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 µs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

Add-A-Pak

Diode

IRKE71/14	1400	80	100	1.5	1500	1570	0.4	2 8 9 27	27140
IRKE71/16	1600	80	100	1.5	1500	1570	0.4	2 8 9 27	27140
IRKE91/04	400	100	100	1.45	1700	1780	0.35	2 8 9 27	27141
IRKE91/06	600	100	100	1.45	1700	1780	0.35	2 8 9 27	27141
IRKE91/08	800	100	100	1.45	1700	1780	0.35	2 8 9 27	27141
IRKE91/10	1000	100	100	1.45	1700	1780	0.35	2 8 9 27	27141
IRKE91/12	1200	100	100	1.45	1700	1780	0.35	2 8 9 27	27141
IRKE91/14	1400	100	100	1.45	1700	1780	0.35	2 8 9 27	27141
IRKE91/16	1600	100	100	1.45	1700	1780	0.35	2 8 9 27	27141

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 µs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

INT-A-Pak

Diode

IRKE166-04	400	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE166-08	800	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE166-12	1200	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE166-16	1600	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE166-20	2000	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE196-04	400	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE196-08	800	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE196-12	1200	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE196-16	1600	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE196-20	2000	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE236-04	400	230	100	1.27	5500	5700	0.17	2 8 9 28 29	87096
IRKE236-08	800	230	100	1.27	5500	5700	0.17	2 8 9 28 29	87096

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

INT-A-Pak

Diode

IRKE236-12	1200	230	100	1.27	5500	5700	0.17	2 8 9 28 29	87096
IRKE236-16	1600	230	100	1.27	5500	5700	0.17	2 8 9 28 29	87096
IRKE236-20	2000	230	100	1.27	5500	5700	0.17	2 8 9 28 29	87096
IRKE236-24	2400	230	100	1.27	5500	5700	0.17	2 8 9 28 29	87096

NOTES:

- Available on tape-and-reel
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C
- For Irm: Tj = 150°C
- Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- VFM measured at Tj=Tj max.
- Io at ambient temperature
- Rth is junction-to-ambient
- Value given for RthJC is per module
- Vfm measured at Tj=25°C
- RMS isolation voltage=2700V - 50Hz
- RMS isolation voltage=4000V - 50Hz
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.
- Additional packages available
- Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- For Irm: Tj=25°C
- Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 1N3288 series also available.
- VFM for JEDEC types is registered at max Tj.
- Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- DC operation, double side cooled
- IF(AV) and Rth measured to heat sink
- Ifsm measured at 50% VRRM reapplied
- 10 µs square pulse, Tj=Tj max
- RMS isolation voltage=3500V - 50Hz
- Available with spacers and longer screws
- RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

MAGN-A-Pak

Diode

IRKE250-04	400	250	100	1.29	5900	6180	0.16	2 8 9 29	87090
IRKE250-08	800	250	100	1.29	5900	6180	0.16	2 8 9 29	87090
IRKE250-12	1200	250	100	1.29	5900	6180	0.16	2 8 9 29	87090
IRKE250-16	1600	250	100	1.29	5900	6180	0.16	2 8 9 29	87090
IRKE250-20	2000	250	100	1.29	5900	6180	0.16	2 8 9 29	87090
IRKE270-04	400	270	100	1.48	7500	7850	0.125	2 8 9 29	87090
IRKE270-08	800	270	100	1.48	7500	7850	0.125	2 8 9 29	87090
IRKE270-12	1200	270	100	1.48	7500	7850	0.125	2 8 9 29	87090
IRKE270-16	1600	270	100	1.48	7500	7850	0.125	2 8 9 29	87090
IRKE270-20	2000	270	100	1.48	7500	7850	0.125	2 8 9 29	87090
IRKE270-24	2400	270	100	1.48	7500	7850	0.125	2 8 9 29	87090
IRKE270-30	3000	270	100	1.48	7500	7850	0.125	2 8 9 29	87090

NOTES:

- Available on tape-and-reel
- For I_{FSM} : 100% V_{RRM} reapplied, $T_j=T_j$ max.=150°C
- For I_{RM} : $T_j = 150^\circ\text{C}$
- Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- V_{FM} measured at $T_j=T_j$ max.
- I_o at ambient temperature
- R_{th} is junction-to-ambient
- Value given for R_{thJC} is per module
- V_{FM} measured at $T_j=25^\circ\text{C}$
- RMS isolation voltage=2700V - 50Hz
- RMS isolation voltage=4000V - 50Hz
- For I_{FSM} : 100% V_{RRM} reapplied, $T_j=T_j$ max.
- Additional packages available
- Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- For I_{RM} : $T_j=25^\circ\text{C}$
- Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 1N3288 series also available.
- V_{FM} for JEDEC types is registered at max T_j .
- Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- DC operation, double side cooled
- $I_{F(AV)}$ and R_{th} measured to heat sink
- I_{FSM} measured at 50% V_{RRM} reapplied
- 10 μs square pulse, $T_j=T_j$ max
- RMS isolation voltage=3500V - 50Hz
- Available with spacers and longer screws
- RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

MAGN-A-Pak

Diode

IRKE320-04	400	320	100	1.28	8500	8900	0.125	2 8 9 29	87090
IRKE320-08	800	320	100	1.28	8500	8900	0.125	2 8 9 29	87090
IRKE320-12	1200	320	100	1.28	8500	8900	0.125	2 8 9 29	87090
IRKE320-16	1600	320	100	1.28	8500	8900	0.125	2 8 9 29	87090
IRKE320-20	2000	320	100	1.28	8500	8900	0.125	2 8 9 29	87090

NOTES:

- Available on tape-and-reel
- For I_{FSM} : 100% V_{RRM} reapplied, $T_j = T_j$ max.=150°C
- For I_{RM} : $T_j = 150^\circ\text{C}$
- Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- V_{FM} measured at $T_j = T_j$ max.
- I_o at ambient temperature
- R_{th} is junction-to-ambient
- Value given for R_{thJC} is per module
- V_{FM} measured at $T_j = 25^\circ\text{C}$
- RMS isolation voltage=2700V - 50Hz
- RMS isolation voltage=4000V - 50Hz
- For I_{FSM} : 100% V_{RRM} reapplied, $T_j = T_j$ max.
- Additional packages available
- Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- For I_{RM} : $T_j = 25^\circ\text{C}$
- Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 1N3288 series also available.
- V_{FM} for JEDEC types is registered at max T_j .
- Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- DC operation, double side cooled
- $I_{F(AV)}$ and R_{th} measured to heat sink
- I_{FSM} measured at 50% V_{RRM} reapplied
- 10 μs square pulse, $T_j = T_j$ max
- RMS isolation voltage=3500V - 50Hz
- Available with spacers and longer screws
- RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

Add-A-Pak

Diode / Diode

IRKD56/04	IRKC56/04	IRKJ56/04	400	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/06	IRKC56/06	IRKJ56/06	600	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/08	IRKC56/08	IRKJ56/08	800	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/10	IRKC56/10	IRKJ56/10	1000	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/12	IRKC56/12	IRKJ56/12	1200	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/14	IRKC56/14	IRKJ56/14	1400	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/16	IRKC56/16	IRKJ56/16	1600	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD71/04	IRKC71/04	IRKJ71/04	400	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/06	IRKC71/06	IRKJ71/06	600	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/08	IRKC71/08	IRKJ71/08	800	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/10	IRKC71/10	IRKJ71/10	1000	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/12	IRKC71/12	IRKJ71/12	1200	80	100	1.5	1500	1570	0.2	2 8 9 27	27140

NOTES:

- Available on tape-and-reel
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C
- For Irm: Tj = 150°C
- Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- VFM measured at Tj=Tj max.
- Io at ambient temperature
- Rth is junction-to-ambient
- Value given for RthJC is per module
- Vfm measured at Tj=25°C
- RMS isolation voltage=2700V - 50Hz
- RMS isolation voltage=4000V - 50Hz
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.
- Additional packages available
- Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- For Irm: Tj=25°C
- Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 1N3288 series also available.
- VFM for JEDEC types is registered at max Tj.
- Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- DC operation, double side cooled
- IF(AV) and Rth measured to heat sink
- Ifsm measured at 50% VRRM reapplied
- 10 μs square pulse, Tj=Tj max
- RMS isolation voltage=3500V - 50Hz
- Available with spacers and longer screws
- RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

Add-A-Pak

Diode / Diode

IRKD71/14	IRKC71/14	IRKJ71/14	1400	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/16	IRKC71/16	IRKJ71/16	1600	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD91/04	IRKC91/04	IRKJ91/04	400	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/06	IRKC91/06	IRKJ91/06	600	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/08	IRKC91/08	IRKJ91/08	800	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/10	IRKC91/10	IRKJ91/10	1000	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/12	IRKC91/12	IRKJ91/12	1200	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/14	IRKC91/14	IRKJ91/14	1400	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/16	IRKC91/16	IRKJ91/16	1600	100	100	1.45	1700	1780	0.175	2 8 9 27	27141

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

INT-A-Pak

Diode / Diode

IRKD166-04	IRKC166-04	IRKJ166-04	400	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD166-08	IRKC166-08	IRKJ166-08	800	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD166-12	IRKC166-12	IRKJ166-12	1200	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD166-16	IRKC166-16	IRKJ166-16	1600	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD166-20	IRKC166-20	IRKJ166-20	2000	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD196-04	IRKC196-04	IRKJ196-04	400	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-08	IRKC196-08	IRKJ196-08	800	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-12	IRKC196-12	IRKJ196-12	1200	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-16	IRKC196-16	IRKJ196-16	1600	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-20	IRKC196-20	IRKJ196-20	2000	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-24	IRKC196-24	IRKJ196-24	2400	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD236-04	IRKC236-04	IRKJ236-04	400	230	100	1.27	5500	5700	0.085	2 8 9 28 29	87096

NOTES:

- Available on tape-and-reel
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C
- For Ifrm: Tj = 150°C
- Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- VFM measured at Tj=Tj max.
- Io at ambient temperature
- Rth is junction-to-ambient
- Value given for RthJC is per module
- Vfm measured at Tj=25°C
- RMS isolation voltage=2700V - 50Hz
- RMS isolation voltage=4000V - 50Hz
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.
- Additional packages available
- Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- For Ifrm: Tj=25°C
- Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 1N3288 series also available.
- VFM for JEDEC types is registered at max Tj.
- Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- DC operation, double side cooled
- If(AV) and Rth measured to heat sink
- Ifsm measured at 50% VRRM reapplied
- 10 μs square pulse, Tj=Tj max
- RMS isolation voltage=3500V - 50Hz
- Available with spacers and longer screws
- RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @πX I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

INT-A-Pak

Diode / Diode

IRKD236-08	IRKC236-08	IRKJ236-08	800	230	100	1.27	5500	5700	0.085	2 8 9 28 29	87096
IRKD236-12	IRKC236-12	IRKJ236-12	1200	230	100	1.27	5500	5700	0.085	2 8 9 28 29	87096
IRKD236-16	IRKC236-16	IRKJ236-16	1600	230	100	1.27	5500	5700	0.085	2 8 9 28 29	87096
IRKD236-20	IRKC236-20	IRKJ236-20	2000	230	100	1.27	5500	5700	0.085	2 8 9 28 29	87096
IRKD236-22	IRKC236-22	IRKJ236-22	2200	230	100	1.27	5500	5700	0.085	2 8 9 28 29	87096
IRKD236-24	IRKC236-24	IRKJ236-24	2400	230	100	1.27	5500	5700	0.085	2 8 9 28 29	87096

NOTES:

- Available on tape-and-reel
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C
- For Irm: Tj = 150°C
- Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- VFM measured at Tj=Tj max.
- Io at ambient temperature
- Rth is junction-to-ambient
- Value given for RthJC is per module
- Vfm measured at Tj=25°C
- RMS isolation voltage=2700V - 50Hz
- RMS isolation voltage=4000V - 50Hz
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.
- Additional packages available
- Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- For Irm: Tj=25°C
- Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 1N3288 series also available.
- VFM for JEDEC types is registered at max Tj.
- Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- DC operation, double side cooled
- IF(AV) and Rth measured to heat sink
- Ifsm measured at 50% VRRM reapplied
- 10 μs square pulse, Tj=Tj max
- RMS isolation voltage=3500V - 50Hz
- Available with spacers and longer screws
- RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

MAGN-A-Pak

Diode / Diode

IRKD250-04	IRKC250-04	IRKJ250-04	400	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD250-08	IRKC250-08	IRKJ250-08	800	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD250-12	IRKC250-12	IRKJ250-12	1200	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD250-16	IRKC250-16	IRKJ250-16	1600	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD250-20	IRKC250-20	IRKJ250-20	2000	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD270-04	IRKC270-04	IRKJ270-04	400	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-08	IRKC270-08	IRKJ270-08	800	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-12	IRKC270-12	IRKJ270-12	1200	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-16	IRKC270-16	IRKJ270-16	1600	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-20	IRKC270-20	IRKJ270-20	2000	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-24	IRKC270-24	IRKJ270-24	2400	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-30	IRKC270-30	IRKJ270-30	3000	270	100	1.48	7500	7850	0.063	2 8 9 29	87090

NOTES:

- Available on tape-and-reel
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C
- For Ifrm: Tj = 150°C
- Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- VFM measured at Tj=Tj max.
- Io at ambient temperature
- Rth is junction-to-ambient
- Value given for RthJC is per module
- Vfm measured at Tj=25°C
- RMS isolation voltage=2700V - 50Hz
- RMS isolation voltage=4000V - 50Hz
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.
- Additional packages available
- Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- For Ifrm: Tj=25°C
- Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 1N3288 series also available.
- VFM for JEDEC types is registered at max Tj.
- Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- DC operation, double side cooled
- If(AV) and Rth measured to heat sink
- Ifsm measured at 50% VRRM reapplied
- 10 μs square pulse, Tj=Tj max
- RMS isolation voltage=3500V - 50Hz
- Available with spacers and longer screws
- RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@T _C (°C)	V _{FM} @π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

MAGN-A-Pak

Diode / Diode

IRKD320-04	IRKC320-04	IRKJ320-04	400	320	100	1.28	8500	8900	0.063	2 8 9 29	87090
IRKD320-08	IRKC320-08	IRKJ320-08	800	320	100	1.28	8500	8900	0.063	2 8 9 29	87090
IRKD320-12	IRKC320-12	IRKJ320-12	1200	320	100	1.28	8500	8900	0.063	2 8 9 29	87090
IRKD320-16	IRKC320-16	IRKJ320-16	1600	320	100	1.28	8500	8900	0.063	2 8 9 29	87090
IRKD320-20	IRKC320-20	IRKJ320-20	2000	320	100	1.28	8500	8900	0.063	2 8 9 29	87090

NOTES:

- Available on tape-and-reel
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C
- For Irm: Tj = 150°C
- Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- VFM measured at Tj=Tj max.
- Io at ambient temperature
- Rth is junction-to-ambient
- Value given for RthJC is per module
- Vfm measured at Tj=25°C
- RMS isolation voltage=2700V - 50Hz
- RMS isolation voltage=4000V - 50Hz
- For Ifsm: 100% VRRM reapplied, Tj=Tj max.
- Additional packages available
- Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- For Irm: Tj=25°C
- Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 1N3288 series also available.
- VFM for JEDEC types is registered at max Tj.
- Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- DC operation, double side cooled
- IF(AV) and Rth measured to heat sink
- Ifsm measured at 50% VRRM reapplied
- 10 μs square pulse, Tj=Tj max
- RMS isolation voltage=3500V - 50Hz
- Available with spacers and longer screws
- RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@T _C (°C)	$V_{FM@}$ I_{FM} (V)	I_{FSM} 50 Hz (A)	I_{FSM} 60 Hz (A)	$R_{\theta JC (DC)}$ K/W	Notes
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Power Module

Diode / Diode

Super MAGN-A-Pak

IRKD600-08	800	600	100	1.25	16200	17200	0.032	2 8 9 29
IRKD600-12	1200	600	100	1.25	16200	17200	0.032	2 8 9 29
IRKD600-16	1600	600	100	1.25	16200	17200	0.032	2 8 9 29
IRKD600-20	2000	600	100	1.25	16200	17200	0.032	2 8 9 29

- | | | | |
|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening (high-g applications). To order, part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooling |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 μs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and lock screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V |
| 9 Vfm measured at Tj=25°C | | | |