

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	I_{FSM} 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)	$@\pi X$	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:

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| <ul style="list-style-type: none"> 1 Available on tape-and-reel 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C 3 For Irm: Tj = 150°C 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. 5 VFM measured at Tj=Tj max. 6 Io at ambient temperature 7 Rth is junction-to-ambient 8 Value given for RthJC is per module 9 Vfm measured at Tj=25°C | <ul style="list-style-type: none"> 10 RMS isolation voltage=2700V - 50Hz 11 RMS isolation voltage=4000V - 50Hz 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. 13 Additional packages available 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 15 For Irm: Tj=25°C 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | <ul style="list-style-type: none"> 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC 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. 20 1N3288 series also available. 21 VFM for JEDEC types is registered at max Tj. | <ul style="list-style-type: none"> 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 23 DC operation, double side cooled 24 IF(AV) and Rth measured to heat sink 25 Ifsm measured at 50% VRRM reapplied 26 10 μs square pulse, Tj=Tj max 27 RMS isolation voltage=3500V - 50Hz 28 Available with spacers and longer screws 29 RMS isolation voltage=3000V - 50Hz |
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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

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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

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

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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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