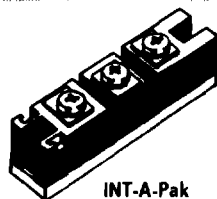


Diodes

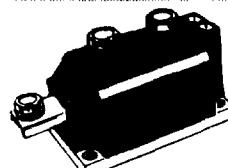
| Diodes | PART NUMBER | | | VRRM (V) | IF(AV) @ TC (A) | IFSM (23) 50 Hz (A) | IFSM (23) 60 Hz (A) | (24) VFM (V) | (21) R _{thJC} DC (K/W) | Notes | Fax-on-Demand Number | Case Style, (Case Outline) (1) |
|------------------------------------|--------------------------------|------------------------------|------|-------------|-----------------------|---------------------------|---------------------------|--------------------|---------------------------------------|----------|-------------------------|-----------------------------------|
| | Center Tap » Common Cathode | Center Tap » Common Anode | | | | | | | | | | |
| Power Modules - Diode/Diode | | | | | | | | | | | | |
| IRKD56/04 | IRKC56/04 | IRKJ56/04 | 400 | 60 | 100 | 1350 | 1420 | 1.35 | 0.325 | (22) | 27140 | ADD-A-Pak (M4) |
| IRKD56/06 | IRKC56/06 | IRKJ56/06 | 600 | 60 | 100 | 1350 | 1420 | 1.35 | 0.325 | (22) | 27140 | |
| IRKD56/08 | IRKC56/08 | IRKJ56/08 | 800 | 60 | 100 | 1350 | 1420 | 1.35 | 0.325 | (22) | 27140 | |
| IRKD56/10 | IRKC56/10 | IRKJ56/10 | 1000 | 60 | 100 | 1350 | 1420 | 1.35 | 0.325 | (22) | 27140 | |
| IRKD56/12 | IRKC56/12 | IRKJ56/12 | 1200 | 60 | 100 | 1350 | 1420 | 1.35 | 0.325 | (22) | 27140 | |
| IRKD56/14 | IRKC56/14 | IRKJ56/14 | 1400 | 60 | 100 | 1350 | 1420 | 1.35 | 0.325 | (22) | 27140 | |
| IRKD56/16 | IRKC56/16 | IRKJ56/16 | 1600 | 60 | 100 | 1350 | 1420 | 1.35 | 0.325 | (22) | 27140 | |
| IRKD71/04 | IRKC71/04 | IRKJ71/04 | 400 | 80 | 100 | 1500 | 1570 | 1.30 | 0.285 | (22) | 27140 | |
| IRKD71/06 | IRKC71/06 | IRKJ71/06 | 600 | 80 | 100 | 1500 | 1570 | 1.30 | 0.285 | (22) | 27140 | |
| IRKD71/08 | IRKC71/08 | IRKJ71/08 | 800 | 80 | 100 | 1500 | 1570 | 1.30 | 0.285 | (22) | 27140 | |
| IRKD71/10 | IRKC71/10 | IRKJ71/10 | 1000 | 80 | 100 | 1500 | 1570 | 1.30 | 0.285 | (22) | 27140 | |
| IRKD71/12 | IRKC71/12 | IRKJ71/12 | 1200 | 80 | 100 | 1500 | 1570 | 1.30 | 0.285 | (22) | 27140 | |
| IRKD71/14 | IRKC71/14 | IRKJ71/14 | 1400 | 80 | 100 | 1500 | 1570 | 1.30 | 0.285 | (22) | 27140 | |
| IRKD71/16 | IRKC71/16 | IRKJ71/16 | 1600 | 80 | 100 | 1500 | 1570 | 1.30 | 0.285 | (22) | 27140 | |
| IRKD91/04 | IRKC91/04 | IRKJ91/04 | 400 | 100 | 100 | 1700 | 1780 | 1.30 | 0.22 | (22) | 27141 | |
| IRKD91/06 | IRKC91/06 | IRKJ91/06 | 600 | 100 | 100 | 1700 | 1780 | 1.30 | 0.22 | (22) | 27141 | |
| IRKD91/08 | IRKC91/08 | IRKJ91/08 | 800 | 100 | 100 | 1700 | 1780 | 1.30 | 0.22 | (22) | 27141 | |
| IRKD91/10 | IRKC91/10 | IRKJ91/10 | 1000 | 100 | 100 | 1700 | 1780 | 1.30 | 0.22 | (22) | 27141 | |
| IRKD91/12 | IRKC91/12 | IRKJ91/12 | 1200 | 100 | 100 | 1700 | 1780 | 1.30 | 0.22 | (22) | 27141 | |
| IRKD91/14 | IRKC91/14 | IRKJ91/14 | 1400 | 100 | 100 | 1700 | 1780 | 1.30 | 0.22 | (22) | 27141 | |
| IRKD91/16 | IRKC91/16 | IRKJ91/16 | 1600 | 100 | 100 | 1700 | 1780 | 1.30 | 0.22 | (22) | 27141 | |
| IRKD166-04 | IRKC166-04 | IRKJ166-04 | 400 | 165 | 100 | 3350 | 3500 | 1.69 | 0.10 | (25)(26) | 87096 | INT-A-Pak (M5) |
| IRKD166-08 | IRKC166-08 | IRKJ166-08 | 800 | 165 | 100 | 3350 | 3500 | 1.69 | 0.10 | (25)(26) | 87096 | |
| IRKD166-12 | IRKC166-12 | IRKJ166-12 | 1200 | 165 | 100 | 3350 | 3500 | 1.69 | 0.10 | (25)(26) | 87096 | |
| IRKD166-16 | IRKC166-16 | IRKJ166-16 | 1600 | 165 | 100 | 3350 | 3500 | 1.69 | 0.10 | (25)(26) | 87096 | |
| IRKD166-20 | IRKC166-20 | IRKJ166-20 | 2000 | 165 | 100 | 3350 | 3500 | 1.69 | 0.10 | (25)(26) | 87096 | |
| IRKD196-04 | IRKC196-04 | IRKJ196-04 | 400 | 195 | 100 | 4000 | 4200 | 1.38 | 0.10 | (25)(26) | 87096 | |
| IRKD196-08 | IRKC196-08 | IRKJ196-08 | 800 | 195 | 100 | 4000 | 4200 | 1.38 | 0.10 | (25)(26) | 87096 | |
| IRKD196-12 | IRKC196-12 | IRKJ196-12 | 1200 | 195 | 100 | 4000 | 4200 | 1.38 | 0.10 | (25)(26) | 87096 | |
| IRKD196-16 | IRKC196-16 | IRKJ196-16 | 1600 | 195 | 100 | 4000 | 4200 | 1.38 | 0.10 | (25)(26) | 87096 | |
| IRKD196-20 | IRKC196-20 | IRKJ196-20 | 2000 | 195 | 100 | 4000 | 4200 | 1.38 | 0.10 | (25)(26) | 87096 | |
| IRKD196-24 | IRKC196-24 | IRKJ196-24 | 2400 | 195 | 100 | 4000 | 4200 | 1.38 | 0.10 | (25)(26) | 87096 | |
| IRKD236-04 | IRKC236-04 | IRKJ236-04 | 400 | 230 | 100 | 5500 | 5700 | 1.27 | 0.085 | (25)(26) | 87096 | |
| IRKD236-08 | IRKC236-08 | IRKJ236-08 | 800 | 230 | 100 | 5500 | 5700 | 1.27 | 0.085 | (25)(26) | 87096 | |
| IRKD236-12 | IRKC236-12 | IRKJ236-12 | 1200 | 230 | 100 | 5500 | 5700 | 1.27 | 0.085 | (25)(26) | 87096 | |
| IRKD236-16 | IRKC236-16 | IRKJ236-16 | 1600 | 230 | 100 | 5500 | 5700 | 1.27 | 0.085 | (25)(26) | 87096 | |
| IRKD236-20 | IRKC236-20 | IRKJ236-20 | 2000 | 230 | 100 | 5500 | 5700 | 1.27 | 0.085 | (25)(26) | 87096 | |
| IRKD236-22 | IRKC236-22 | IRKJ236-22 | 2200 | 230 | 100 | 5500 | 5700 | 1.27 | 0.085 | (25)(26) | 87096 | |
| IRKD236-24 | IRKC236-24 | IRKJ236-24 | 2400 | 230 | 100 | 5500 | 5700 | 1.27 | 0.085 | (25)(26) | 87096 | |



ADD-A-Pak



INT-A-Pak



MAGN-A-Pak

 RECOGNIZED
File no. E73666



| Diodes | PART NUMBER | | | VRRM (V) | IF(AV) @ TC | | IFSM (23) | | (24) | (21) | Notes | Fax-on-Demand Number | Case Style, (Case Outline) (1) |
|--------------------------------------|--------------------------------|------------------------------|------|-------------|----------------|------|-----------|-------|------------|------------------|-------|-------------------------|-----------------------------------|
| | Center Tap » Common Cathode | Center Tap » Common Anode | | | (A) | (°C) | 50 Hz | 60 Hz | VFM (V) | RthJCDC (K/W) | | | |
| Power Modules - Diode / Diode | | | | | | | | | | | | | |
| IRKD250-04 | IRKC250-04 | IRKJ250-04 | 400 | 250 | 100 | 5900 | 6180 | 1.29 | 0.08 | (26) | 87090 | MAGN-A-Pak (M6) | |
| IRKD250-08 | IRKC250-08 | IRKJ250-08 | 800 | 250 | 100 | 5900 | 6180 | 1.29 | 0.08 | (26) | 87090 | | |
| IRKD250-12 | IRKC250-12 | IRKJ250-12 | 1200 | 250 | 100 | 5900 | 6180 | 1.29 | 0.08 | (26) | 87090 | | |
| IRKD250-16 | IRKC250-16 | IRKJ250-16 | 1600 | 250 | 100 | 5900 | 6180 | 1.29 | 0.08 | (26) | 87090 | | |
| IRKD250-20 | IRKC250-20 | IRKJ250-20 | 2000 | 250 | 100 | 5900 | 6180 | 1.29 | 0.08 | (26) | 87090 | | |
| IRKD270-04 | IRKC270-04 | IRKJ270-04 | 400 | 270 | 100 | 7500 | 7850 | 1.48 | 0.063 | (26) | 87090 | | |
| IRKD270-08 | IRKC270-08 | IRKJ270-08 | 800 | 270 | 100 | 7500 | 7850 | 1.48 | 0.063 | (26) | 87090 | | |
| IRKD270-12 | IRKC270-12 | IRKJ270-12 | 1200 | 270 | 100 | 7500 | 7850 | 1.48 | 0.063 | (26) | 87090 | | |
| IRKD270-16 | IRKC270-16 | IRKJ270-16 | 1600 | 270 | 100 | 7500 | 7850 | 1.48 | 0.063 | (26) | 87090 | | |
| IRKD270-20 | IRKC270-20 | IRKJ270-20 | 2000 | 270 | 100 | 7500 | 7850 | 1.48 | 0.063 | (26) | 87090 | | |
| IRKD270-24 | IRKC270-24 | IRKJ270-24 | 2400 | 270 | 100 | 7500 | 7850 | 1.48 | 0.063 | (26) | 87090 | | |
| IRKD270-30 | IRKC270-30 | IRKJ270-30 | 3000 | 270 | 100 | 7500 | 7850 | 1.48 | 0.063 | (26) | 87090 | | |
| IRKD320-04 | IRKC320-04 | IRKJ320-04 | 400 | 320 | 100 | 8500 | 8900 | 1.28 | 0.063 | (26) | 87090 | | |
| IRKD320-08 | IRKC320-08 | IRKJ320-08 | 800 | 320 | 100 | 8500 | 8900 | 1.28 | 0.063 | (26) | 87090 | | |
| IRKD320-12 | IRKC320-12 | IRKJ320-12 | 1200 | 320 | 100 | 8500 | 8900 | 1.28 | 0.063 | (26) | 87090 | | |
| IRKD320-16 | IRKC320-16 | IRKJ320-16 | 1600 | 320 | 100 | 8500 | 8900 | 1.28 | 0.063 | (26) | 87090 | | |
| IRKD320-20 | IRKC320-20 | IRKJ320-20 | 2000 | 320 | 100 | 8500 | 8900 | 1.28 | 0.063 | (26) | 87090 | | |

See page 26 for Diode Die Table. Additional die information located on page 160.

- (1) See page 105 for Case Outline information
- (21) Value given for RthJC is per module.
- (22) RMS isolation voltage = 3500V - 50Hz.
- (23) Tj = Tj max = 150°C; 100% VRRM re-applied
- (24) VFM at IFM = IF(AV) X π Tj = 25°C.
- (25) Available with spacers and longer screws.
- (26) RMS isolation voltage = 3000V - 50Hz.
- » Contact factory for order information.