




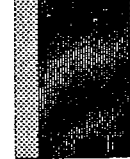



## Power Modules,

## Diode/Diode

T-23-01

| Part number<br>(6) (7) (8)   |  |  | V <sub>RRM</sub><br>(V)                                   | I <sub>F(AV)</sub> T <sub>C</sub> |      | I <sub>FSM</sub> (1) |             | V <sub>FM</sub><br>(2)<br>(V) | R <sub>thJC</sub> DC<br>(3)<br>(°C/W) | Case<br>Outline<br>Number | Notes | Case style  |
|--|--|--|---|-----------------------------------|------|----------------------|-------------|-------------------------------|---------------------------------------|---------------------------|-------|---|
|  |  |  |   | (A)                               | (°C) | 50Hz<br>(A)          | 60Hz<br>(A) |                               |                                       |                           |       |   |
| B40D10<br>B40D20<br>B40D40<br>B40D60<br>B40D80<br>B40D100<br>B40D120   | B40C10<br>B40C20<br>B40C40<br>B40C60<br>B40C80<br>B40C100<br>B40C120   | B40J10<br>B40J20<br>B40J40<br>B40J60<br>B40J80<br>B40J100<br>B40J120   | 100<br>200<br>400<br>600<br>800<br>1000<br>1200           | 40                                | 85   | 550                  | 575         | 1.31                          | 0.60                                  | M2                        | (4)   |    |
| IRKD56-04<br>IRKD56-06<br>IRKD56-08<br>IRKD56-10<br>IRKD56-12  | IRKC56-04<br>IRKC56-06<br>IRKC56-08<br>IRKC56-10<br>IRKC56-12  | IRKJ56-04<br>IRKJ56-06<br>IRKJ56-08<br>IRKJ56-10<br>IRKJ56-12  | 400<br>600<br>800<br>1000<br>1200                         | 55                                | 100  | 1350                 | 1415        | 1.35                          | 0.325                                 | M4                        | (4)   |    |
| IRKD61-14<br>IRKD61-16<br>IRKD61-18<br>IRKD61-20   | IRKC61-14<br>IRKC61-16<br>IRKC61-18<br>IRKC61-20   | IRKJ61-14<br>IRKJ61-16<br>IRKJ61-18<br>IRKJ61-20   | 1400<br>1600<br>1800<br>2000                              | 60                                | 90   | 1450                 | 1520        | 1.35                          | 0.325                                 | M4                        | (4)   |    |
| IRKD71-04<br>IRKD71-06<br>IRKD71-08<br>IRKD71-10<br>IRKD71-12  | IRKC71-04<br>IRKC71-06<br>IRKC71-08<br>IRKC71-10<br>IRKC71-12  | IRKJ71-04<br>IRKJ71-06<br>IRKJ71-08<br>IRKJ71-10<br>IRKJ71-12  | 400<br>600<br>800<br>1000<br>1200                         | 70                                | 100  | 1500                 | 1570        | 1.30                          | 0.285                                 | M4                        | (4)   |   |
| IRKD81-14<br>IRKD81-16<br>IRKD81-18<br>IRKD81-20   | IRKC81-14<br>IRKC81-16<br>IRKC81-18<br>IRKC81-20   | IRKJ81-14<br>IRKJ81-16<br>IRKJ81-18<br>IRKJ81-20   | 1400<br>1600<br>1800<br>2000                              | 80                                | 88   | 1600                 | 1680        | 1.36                          | 0.25                                  | M4                        | (4)   |   |
| IRKD91-04<br>IRKD91-06<br>IRKD91-08<br>IRKD91-10<br>IRKD91-12  | IRKC91-04<br>IRKC91-06<br>IRKC91-08<br>IRKC91-10<br>IRKC91-12  | IRKJ91-04<br>IRKJ91-06<br>IRKJ91-08<br>IRKJ91-10<br>IRKJ91-12  | 400<br>600<br>800<br>1000<br>1200                         | 90                                | 100  | 1700                 | 1780        | 1.30                          | 0.22                                  | M4                        | (4)   |   |
| IRKD101-14<br>IRKD101-16<br>IRKD101-18<br>IRKD101-20   | IRKC101-14<br>IRKC101-16<br>IRKC101-18<br>IRKC101-20   | IRKJ101-14<br>IRKJ101-16<br>IRKJ101-18<br>IRKJ101-20   | 1400<br>1600<br>1800<br>2000                              | 100                               | 87   | 2020                 | 2110        | 1.34                          | 0.22                                  | M4                        | (4)   |   |
| IRKD162-04<br>IRKD162-06<br>IRKD162-08<br>IRKD162-10<br>IRKD162-12<br>IRKD162-14<br>IRKD162-16               | IRKC162-04<br>IRKC162-06<br>IRKC162-08<br>IRKC162-10<br>IRKC162-12<br>IRKC162-14<br>IRKC162-16               | IRKJ162-04<br>IRKJ162-06<br>IRKJ162-08<br>IRKJ162-10<br>IRKJ162-12<br>IRKJ162-14<br>IRKJ162-16               | 400<br>600<br>800<br>1000<br>1200<br>1400<br>1600         | 160                               | 85   | 5000                 | 5240        | 1.25                          | 0.105                                 | M5                        | (4)   |  |
| IRKD192-04<br>IRKD192-06<br>IRKD192-08<br>IRKD192-10<br>IRKD192-12<br>IRKD192-14<br>IRKD192-16               | IRKC192-04<br>IRKC192-06<br>IRKC192-08<br>IRKC192-10<br>IRKC192-12<br>IRKC192-14<br>IRKC192-16               | IRKJ192-04<br>IRKJ192-06<br>IRKJ192-08<br>IRKJ192-10<br>IRKJ192-12<br>IRKJ192-14<br>IRKJ192-16               | 400<br>600<br>800<br>1000<br>1200<br>1400<br>1600         | 190                               | 85   | 5500                 | 5760        | 1.25                          | 0.085                                 | M5                        | (4)   |  |
| IRKD200-04<br>IRKD200-06<br>IRKD200-08<br>IRKD200-10<br>IRKD200-12<br>IRKD200-14<br>IRKD200-16<br>IRKD200-18 | IRKC200-04<br>IRKC200-06<br>IRKC200-08<br>IRKC200-10<br>IRKC200-12<br>IRKC200-14<br>IRKC200-16<br>IRKC200-18 | IRKJ200-04<br>IRKJ200-06<br>IRKJ200-08<br>IRKJ200-10<br>IRKJ200-12<br>IRKJ200-14<br>IRKJ200-16<br>IRKJ200-18 | 400<br>600<br>800<br>1000<br>1200<br>1400<br>1600<br>1800 | 200                               | 100  | 7560                 | 7920        | 1.15                          | 0.07                                  | M6                        | (4)   |  |
| IRKD260-04<br>IRKD260-06<br>IRKD260-08<br>IRKD260-10<br>IRKD260-12<br>IRKD260-14<br>IRKD260-16<br>IRKD260-18 | IRKC260-04<br>IRKC260-06<br>IRKC260-08<br>IRKC260-10<br>IRKC260-12<br>IRKC260-14<br>IRKC260-16<br>IRKC260-18 | IRKJ260-04<br>IRKJ260-06<br>IRKJ260-08<br>IRKJ260-10<br>IRKJ260-12<br>IRKJ260-14<br>IRKJ260-16<br>IRKJ260-18 | 400<br>600<br>800<br>1000<br>1200<br>1400<br>1600<br>1800 | 260                               | 90   | 8500                 | 8800        | 1.25                          | 0.07                                  | M6                        | (4)   |  |

(1) 100% V<sub>RRM</sub> reapplied. T<sub>J</sub> = T<sub>J</sub> Max = 150°C(2) I<sub>FM</sub> = π × I<sub>F(AV)</sub> · T<sub>J</sub> = 25°C.(3) Value given for R<sub>thJC</sub> is per module.

(4) RMS Isolation Voltage : 3500V - 50Hz.

(6) Doubler circuit.

(7) Center tap, Circuit common cathode.

(8) Center tap, Circuit common anode.