

## R-IPMシリーズ R-IPM series (Intelligent Power Modules)

### 600Vクラス オールシリコン形 IPM 600 volts class/All-silicon IPM

| 形式<br>Device type | V <sub>DC</sub><br>Max.<br>Volts | インバータ部 Inverter [IGBT]        |                                  |                           |                                       | ブレーキ部 Brake [IGBT+FWD]        |                                  |                         |                                       | 制御部 Control                      |                                      |                                       | パッケージ<br>Package | 質量<br>Net<br>mass<br>Grams |
|-------------------|----------------------------------|-------------------------------|----------------------------------|---------------------------|---------------------------------------|-------------------------------|----------------------------------|-------------------------|---------------------------------------|----------------------------------|--------------------------------------|---------------------------------------|------------------|----------------------------|
|                   |                                  | V <sub>CE(sat)</sub><br>Volts | I <sub>c</sub><br>Cont.<br>Amps. | P <sub>c</sub> *<br>Watts | V <sub>CE(sat)</sub><br>Max.<br>Volts | V <sub>CE(sat)</sub><br>Volts | I <sub>c</sub><br>Cont.<br>Amps. | P <sub>c</sub><br>Watts | V <sub>CE(sat)</sub><br>Max.<br>Volts | V <sub>CC</sub><br>Typ.<br>Volts | V <sub>in(ON)</sub><br>Typ.<br>Volts | V <sub>in(OFF)</sub><br>Typ.<br>Volts |                  |                            |
| 6MBP15RH060       | 450                              | 600                           | 15                               | 40                        | 2.7                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P617             | 50                         |
| 6MBP20RH060       | 450                              | 600                           | 20                               | 63                        | 2.7                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P617             | 50                         |
| 6MBP30RH060       | 450                              | 600                           | 30                               | 85                        | 2.7                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P617             | 50                         |
| 6MBP50RA060       | 450                              | 600                           | 50                               | 198                       | 2.8                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P610             | 440                        |
| 6MBP75RA060       | 450                              | 600                           | 75                               | 320                       | 2.8                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P610             | 440                        |
| 6MBP100RA060      | 450                              | 600                           | 100                              | 400                       | 2.8                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P611             | 440                        |
| 6MBP150RA060      | 450                              | 600                           | 150                              | 600                       | 2.8                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P611             | 440                        |
| 6MBP200RA060      | 450                              | 600                           | 200                              | 735                       | 2.8                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 2.05                                  | P612             | 920                        |
| 6MBP300RA060      | 450                              | 600                           | 300                              | 1040                      | 2.8                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 2.05                                  | P612             | 920                        |
| 7MBP50RA060       | 450                              | 600                           | 50                               | 198                       | 2.8                                   | 600                           | 30                               | 120                     | 2.8                                   | 15                               | 1.35                                 | 1.60                                  | P610             | 440                        |
| 7MBP75RA060       | 450                              | 600                           | 75                               | 320                       | 2.8                                   | 600                           | 50                               | 198                     | 2.8                                   | 15                               | 1.35                                 | 1.60                                  | P610             | 440                        |
| 7MBP100RA060      | 450                              | 600                           | 100                              | 400                       | 2.8                                   | 600                           | 50                               | 198                     | 2.8                                   | 15                               | 1.35                                 | 1.60                                  | P611             | 440                        |
| 7MBP150RA060      | 450                              | 600                           | 150                              | 600                       | 2.8                                   | 600                           | 50                               | 198                     | 2.8                                   | 15                               | 1.35                                 | 1.60                                  | P611             | 440                        |
| 7MBP200RA060      | 450                              | 600                           | 200                              | 735                       | 2.8                                   | 600                           | 75                               | 320                     | 2.8                                   | 15                               | 1.35                                 | 2.05                                  | P612             | 920                        |
| 7MBP300RA060      | 450                              | 600                           | 300                              | 1040                      | 2.8                                   | 600                           | 100                              | 400                     | 2.8                                   | 15                               | 1.35                                 | 2.05                                  | P612             | 920                        |

\* 1素子 One-element

### 1200Vクラス オールシリコン形 IPM 1200 volts class/All-silicon IPM

| 形式<br>Device type | V <sub>DC</sub><br>Max.<br>Volts | インバータ部 Inverter [IGBT]        |                                  |                           |                                       | ブレーキ部 Brake [IGBT+FWD]        |                                  |                         |                                       | 制御部 Control                      |                                      |                                       | パッケージ<br>Package | 質量<br>Net<br>mass<br>Grams |
|-------------------|----------------------------------|-------------------------------|----------------------------------|---------------------------|---------------------------------------|-------------------------------|----------------------------------|-------------------------|---------------------------------------|----------------------------------|--------------------------------------|---------------------------------------|------------------|----------------------------|
|                   |                                  | V <sub>CE(sat)</sub><br>Volts | I <sub>c</sub><br>Cont.<br>Amps. | P <sub>c</sub> *<br>Watts | V <sub>CE(sat)</sub><br>Max.<br>Volts | V <sub>CE(sat)</sub><br>Volts | I <sub>c</sub><br>Cont.<br>Amps. | P <sub>c</sub><br>Watts | V <sub>CE(sat)</sub><br>Max.<br>Volts | V <sub>CC</sub><br>Typ.<br>Volts | V <sub>in(ON)</sub><br>Typ.<br>Volts | V <sub>in(OFF)</sub><br>Typ.<br>Volts |                  |                            |
| 6MBP15RA120       | 900                              | 1200                          | 15                               | 91                        | 2.8                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.70                                  | P619             | 85                         |
| 6MBP25RA120       | 900                              | 1200                          | 25                               | 198                       | 2.6                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P610             | 440                        |
| 6MBP50RA120       | 900                              | 1200                          | 50                               | 357                       | 2.6                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P611             | 440                        |
| 6MBP75RA120       | 900                              | 1200                          | 75                               | 500                       | 2.6                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 1.60                                  | P611             | 440                        |
| 6MBP100RA120      | 900                              | 1200                          | 100                              | 735                       | 2.6                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 2.05                                  | P612             | 920                        |
| 6MBP150RA120      | 900                              | 1200                          | 150                              | 1040                      | 2.6                                   | -                             | -                                | -                       | -                                     | 15                               | 1.35                                 | 2.05                                  | P612             | 920                        |
| 7MBP25RA120       | 900                              | 1200                          | 25                               | 198                       | 2.6                                   | 1200                          | 15                               | 120                     | 2.6                                   | 15                               | 1.35                                 | 1.60                                  | P610             | 440                        |
| 7MBP50RA120       | 900                              | 1200                          | 50                               | 357                       | 2.6                                   | 1200                          | 25                               | 198                     | 2.6                                   | 15                               | 1.35                                 | 1.60                                  | P611             | 440                        |
| 7MBP75RA120       | 900                              | 1200                          | 75                               | 500                       | 2.6                                   | 1200                          | 25                               | 198                     | 2.6                                   | 15                               | 1.35                                 | 1.60                                  | P611             | 440                        |
| 7MBP100RA120      | 900                              | 1200                          | 100                              | 735                       | 2.6                                   | 1200                          | 50                               | 400                     | 2.6                                   | 15                               | 1.35                                 | 2.05                                  | P612             | 920                        |
| 7MBP150RA120      | 900                              | 1200                          | 150                              | 1040                      | 2.6                                   | 1200                          | 50                               | 400                     | 2.6                                   | 15                               | 1.35                                 | 2.05                                  | P612             | 920                        |

\* 1素子 One-element