

パワーデバイス/Power Devices (IGBT)

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IGBTモジュール Uシリーズ IGBT Modules, U series

コンバータ部・ブレーキ部内蔵PIM Uシリーズ ECONOPIM™
PIM/Built-in converter and brake U series ECONOPIM™

| 型 式 Device type | インバータ部 Inverter [IGBT] | | | | ブレーキ部 Brake [IGBT+FWD] | | | コンバータ部 Converter [Diode] | | | | パッケージ Package | 質量 Net mass Grams |
|--------------------|------------------------|-------------------------|----------------|------------------------------|------------------------|-------------------------|------------------|--------------------------|-------------------------|-------------------------|------------------|------------------|-------------------------|
| | V _{CES} | I _C Cont. | P _C | V _{CE(sat)} Max. | V _{CES} | I _C Cont. | V _{RRM} | V _{RRM} | I _o Cont. | V _{FM} Max. | I _{FSM} | | |
| | Volts | Amps. | Watts | Volts | Volts | Amps. | Volts | Volts | Amps | Volts | Amps | | |
| 7MBR30U2A060 | 600 | 30 | 133 | 2.4 | 600 | 20 | 600 | 800 | 30 | 1.5 | 210 | M711 | 180 |
| 7MBR50U2A060 | 600 | 50 | 187 | 2.55 | 600 | 20 | 600 | 800 | 50 | 1.5 | 350 | M711 | 180 |
| 7MBR75U2B060 | 600 | 75 | 255 | 2.5 | 600 | 30 | 600 | 800 | 75 | 1.5 | 525 | M712 | 300 |
| 7MBR100U2B060 | 600 | 100 | 378 | 2.6 | 600 | 50 | 600 | 800 | 100 | 1.5 | 700 | M712 | 300 |
| 7MBR25UA120 | 1200 | 25 | 115 | 2.8 | 1200 | 25 | 1200 | 1600 | 25 | 1.5 | 260 | M711 | 180 |
| 7MBR35UA120 | 1200 | 35 | 160 | 2.7 | 1200 | 25 | 1200 | 1600 | 35 | 1.7 | 260 | M711 | 180 |
| 7MBR35UB120 | 1200 | 35 | 160 | 2.6 | 1200 | 25 | 1200 | 1600 | 35 | 1.5 | 360 | M712 | 300 |
| 7MBR50UA120 | 1200 | 50 | 205 | 2.8 | 1200 | 25 | 1200 | 1600 | 50 | 1.9 | 260 | M711 | 180 |
| 7MBR50UB120 | 1200 | 50 | 205 | 2.65 | 1200 | 35 | 1200 | 1600 | 50 | 1.5 | 520 | M712 | 300 |
| 7MBR75U4B120 | 1200 | 75 | 275 | 2.8 | 1200 | 35 | 1200 | 1600 | 75 | 1.75 | 520 | M712 | 300 |
| 7MBR100U4B120 | 1200 | 100 | 390 | 2.85 | 1200 | 50 | 1200 | 1600 | 100 | 1.9 | 520 | M712 | 300 |

600、1200、1700V クラス Uシリーズ 6個組 ECONOPACK™、ECONOPACK™+
600, 1200, 1700 volts class, 6 in one-package U series ECONOPACK™ and ECONOPACK™+

| 型 式 Device type | V _{CES} Volts | V _{GES} Volts | I _C Cont. Amps. | P _C Watts | V _{CE(sat)} (V _{GE} =15V) | | スイッチングタイム Switching time (Max.) | | | パッケージ Package | 質量 Net mass Grams |
|--------------------|---------------------------|---------------------------|----------------------------------|-------------------------|---|-------------------------|---------------------------------|---------------|------|------------------|-------------------------|
| | | | | | Max. Volts | I _C Amps. | ton µsec. | toff µsec. | | | |
| | | | | | | | | tf µsec. | | | |
| 6MBI75U2A-060 | 600 | 20 | 75 | 255 | 2.1 | 75 | 1.2 | 1.2 | 0.45 | M636 | 180 |
| 6MBI100U2B-060 | 600 | 20 | 100 | 380 | 2.1 | 100 | 1.2 | 1.2 | 0.45 | M633 | 300 |
| 6MBI150U2B-060 | 600 | 20 | 150 | 500 | 2.1 | 150 | 1.2 | 1.2 | 0.45 | M633 | 300 |
| 6MBI75UC-120 | 1200 | 20 | 75 | 390 | 2.1 | 75 | 1.2 | 1.0 | 0.3 | M632 | 300 |
| 6MBI100UC-120 | 1200 | 20 | 100 | 520 | 2.1 | 100 | 1.2 | 1.0 | 0.3 | M632 | 300 |
| 6MBI35U4A-120 | 1200 | 20 | 35 | 205 | 2.05 | 35 | 1.2 | 1.0 | 0.3 | M636 | 180 |
| 6MBI50U4A-120 | 1200 | 20 | 50 | 275 | 2.05 | 50 | 1.2 | 1.0 | 0.3 | M636 | 180 |
| 6MBI75U4A-120 | 1200 | 20 | 75 | 390 | 2.05 | 75 | 1.2 | 1.0 | 0.3 | M636 | 180 |
| 6MBI75U4B-120 | 1200 | 20 | 75 | 390 | 2.05 | 75 | 1.2 | 1.0 | 0.3 | M633 | 300 |
| 6MBI100U4B-120 | 1200 | 20 | 100 | 520 | 2.05 | 100 | 1.2 | 1.0 | 0.3 | M633 | 300 |
| 6MBI150U4B-120 | 1200 | 20 | 150 | 735 | 2.05 | 150 | 1.2 | 1.0 | 0.3 | M633 | 300 |
| 6MBI225U4-120 | 1200 | 20 | 225 | 1040 | 2.05 | 225 | 1.2 | 1.0 | 0.3 | M629 | 950 |
| 6MBI300U4-120 | 1200 | 20 | 300 | 1385 | 2.05 | 300 | 1.2 | 1.0 | 0.3 | M629 | 950 |
| 6MBI450U4-120 | 1200 | 20 | 450 | 2080 | 2.05 | 450 | 1.2 | 1.0 | 0.3 | M629 | 950 |
| 6MBI100U4B-170 | 1700 | 20 | 100 | 520 | 2.4 | 100 | 1.2 | 1.5 | 0.3 | M633 | 300 |
| 6MBI150U4B-170 | 1700 | 20 | 150 | 735 | 2.4 | 150 | 1.2 | 1.5 | 0.3 | M633 | 300 |
| 6MBI225U4-170 | 1700 | 20 | 225 | 1040 | 2.4 | 225 | 1.2 | 1.5 | 0.3 | M629 | 950 |
| 6MBI300U4-170 | 1700 | 20 | 300 | 1385 | 2.4 | 300 | 1.2 | 1.5 | 0.3 | M629 | 950 |
| 6MBI450U4-170 | 1700 | 20 | 450 | 2080 | 2.4 | 450 | 1.2 | 1.5 | 0.3 | M629 | 950 |

1200V クラス 3個組 Uシリーズ ECONOPACK™
1200 volts class, 3 in one-package U series ECONOPACK™

| 型 式 Device type | V _{CES} Volts | V _{GES} Volts | I _C Cont. Amps. | P _C Watts | V _{CE(sat)} (V _{GE} =15V) | | スイッチングタイム Switching time (Max.) | | | パッケージ Package | 質量 Net mass Grams |
|--------------------|---------------------------|---------------------------|----------------------------------|-------------------------|---|-------------------------|---------------------------------|---------------|-----|------------------|-------------------------|
| | | | | | Max. Volts | I _C Amps. | ton µsec. | toff µsec. | | | |
| | | | | | | | | tf µsec. | | | |
| 3MBI150U-120 | 1200 | 20 | 150 | 735 | 2.1 | 150 | 1.2 | 1.0 | 0.3 | M634 | 180 |
| 3MBI150UC-120 | 1200 | 20 | 150 | 735 | 2.1 | 150 | 1.2 | 1.0 | 0.3 | M635 | 300 |

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