

# CBI 2 IGBT Modules

| Type                      | Rectifier 3~ |  |                    | Inverter 3~ |                                   |                                   |                       |                    | Brake chopper |                                   |                    | Layout |
|---------------------------|--------------|--|--------------------|-------------|-----------------------------------|-----------------------------------|-----------------------|--------------------|---------------|-----------------------------------|--------------------|--------|
|                           | $V_{RRM}$    | $I_{DAVM}$<br>$T_C = 80^\circ\text{C}$ | $R_{thJC}$<br>typ. | $V_{CES}$   | $I_C$<br>$T_C = 25^\circ\text{C}$ | $I_C$<br>$T_C = 80^\circ\text{C}$ | $V_{CE(sat)}$<br>typ. | $R_{thJC}$<br>typ. | $V_{CES}$     | $I_C$<br>$T_C = 80^\circ\text{C}$ | $R_{thJC}$<br>typ. |        |
| ○ Not for new design      | V            | A                                      | K/W                | V           | A                                 | A                                 | V                     | K/W                | V             | A                                 | K/W                |        |
| <b>600 V NPT IGBT</b>     |              |  |                    |             |                                   |                                   |                       |                    |               |                                   |                    |        |
| ○ MUBW 20-06A7            | 1600         | 24                                     | 1.3                | 600         | 35                                | 25                                | 1.9                   | 1.00               | 600           | 18                                | 1.4                | A      |
| ○ MUBW 30-06A7            |              | 24                                     | 1.3                |             | 50                                | 35                                | 1.9                   | 0.70               |               | 18                                | 1.3                | A      |
| ○ MUBW 50-06A7            |              | 29                                     | 1.1                |             | 75                                | 50                                | 1.9                   | 0.50               |               | 25                                | 1.0                | A      |
| <b>1200 V NPT IGBT</b>    |              |  |                    |             |                                   |                                   |                       |                    |               |                                   |                    |        |
| MUBW 15-12A7              | 1600         | 24                                     | 1.3                | 600         | 35                                | 25                                | 2.0                   | 0.70               | 600           | 15                                | 1.2                | A      |
| MUBW 25-12A7              |              | 24                                     | 1.3                |             | 50                                | 35                                | 2.2                   | 0.55               |               | 15                                | 1.2                | A      |
| MUBW 35-12A7              |              | 29                                     | 1.1                |             | 50                                | 35                                | 2.5                   | 0.55               |               | 25                                | 0.7                | A      |
| <b>1200 V XPT IGBT</b>    |              |  |                    |             |                                   |                                   |                       |                    |               |                                   |                    |        |
| MIXA 10WB1200TED          | 1600         | 105                                    | 1.1                | 1200        | 17                                | 12                                | 1.8                   | 2.00               | 1200          | 12                                | 2.0                | A      |
| MIXA 20WB1200TED          |              | 105                                    | 1.1                |             | 28                                | 20                                | 1.8                   | 1.26               |               | 12                                | 2.0                | A      |
| MIXA 30WB1200TED          |              | 105                                    | 1.1                |             | 43                                | 30                                | 1.8                   | 0.84               |               | 12                                | 2.0                | A      |
| MIXA 40WB1200TED          |              | 105                                    | 1.1                |             | 50                                | 40                                | 1.8                   | 0.64               |               | 20                                | 1.26               | A      |
| <b>1200 V Trench IGBT</b> |              |  |                    |             |                                   |                                   |                       |                    |               |                                   |                    |        |
| ◇ MITG 25WB1200TED        | 1600         | 105                                    | 1.1                | 1200        | 37                                | 28                                | 1.65                  | 1.00               | 1200          | 20                                | 1.26               | B      |
| ◇ MITG 50WB1200TED        |              | 105                                    | 1.1                |             | 86                                | 65                                | 1.65                  | 0.55               |               | 40                                | 0.64               | B      |

Outline drawings on pages O-30...O-55

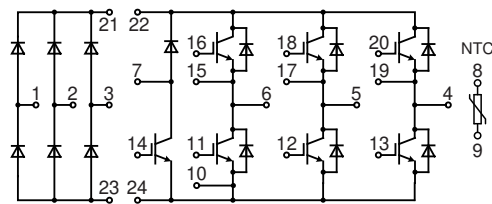


X112

E2-Pack

See data sheet for pin arrangement

Layout A



Layout B

