



# BIPOLAR TRANSISTOR MODULES

## Ratings and Specifications

### 30 1400 volts class power transistor modules

- Power transistors and free wheel diodes are built into one package.
- Terminal layout in which drive wiring and power wiring do not come accross.

| Device type | V <sub>CB0</sub> | V <sub>CE0</sub> | V <sub>CEX</sub><br>(sus) | I <sub>c</sub><br>cont. | P <sub>c</sub> | h <sub>FE</sub><br>min. | I <sub>c</sub> | V <sub>CE</sub> | Switching time (Max.) |    |   | Package | Net<br>mass<br>Grams | Equivalent<br>circuit<br>Page 32, 33 |
|-------------|------------------|------------------|---------------------------|-------------------------|----------------|-------------------------|----------------|-----------------|-----------------------|----|---|---------|----------------------|--------------------------------------|
|             | Volts            | Volts            | Volts                     | Amps.                   | Watts          |                         |                |                 |                       |    |   |         |                      |                                      |
| 2DI30A-140  | 1400             | 1400             | 1200                      | 30                      | 300            | 70                      | 30             | 5               | 3.0                   | 15 | 3 | M204    | 175                  | Fig. E1                              |
| 2DI100A-140 | 1400             | 1400             | 1200                      | 100                     | 800            | 70                      | 100            | 5               | 3.0                   | 15 | 3 | M207    | 550                  | Fig. E2                              |
| 1DI200A-140 | 1400             | 1400             | 1200                      | 200                     | 1400           | 70                      | 200            | 5               | 3.0                   | 15 | 3 | M105    | 560                  | Fig. D1                              |

### 31 6 in one-package power transistor modules

- 6 power transistors and 6 free wheel diodes are built into one package.
- Terminal layout in which drive wiring and power wiring do not come accross.

| Device type | V <sub>CB0</sub> | V <sub>CE0</sub> | V <sub>CEX</sub><br>(sus) | I <sub>c</sub><br>cont. | P <sub>c</sub> | h <sub>FE</sub><br>min. | I <sub>c</sub> | V <sub>CE</sub> | Switching time (Max.) |    |     | Package | Net<br>mass<br>Grams | Equivalent<br>circuit<br>Page 34, 35 |
|-------------|------------------|------------------|---------------------------|-------------------------|----------------|-------------------------|----------------|-----------------|-----------------------|----|-----|---------|----------------------|--------------------------------------|
|             | Volts            | Volts            | Volts                     | Amps.                   | Watts          |                         |                |                 |                       |    |     |         |                      |                                      |
| 6DI10A-050  | 600              | 600              | 450                       | 10                      | 80             | 100                     | 10             | 5               | 1.0                   | 12 | 2   | M601    | 130                  | Fig. H1                              |
| EVF31T-050A | 600              | 600              | 450                       | 15                      | 100            | 100                     | 15             | 5               | 1.0                   | 15 | 2.5 | M602    | 180                  | Fig. H1                              |
| 6DI15A-050  | 600              | 600              | 450                       | 15                      | 80             | 100                     | 15             | 5               | 1.0                   | 12 | 2   | M604    | 150                  | Fig. H1                              |
| 6DI20C-050  | 600              | 600              | 450                       | 20                      | 120            | 100                     | 20             | 5               | 1.0                   | 12 | 2   | M604    | 150                  | Fig. H1                              |
| 6DI30A-050  | 600              | 600              | 450                       | 30                      | 150            | 100                     | 30             | 5               | 1.5                   | 12 | 3   | M603    | 450                  | Fig. H2                              |
| 6DI30B-050  | 600              | 600              | 450                       | 30                      | 200            | 100                     | 30             | 5               | 1.0                   | 12 | 2   | M605    | 210                  | Fig. H3                              |
| 6DI50B-050  | 600              | 600              | 450                       | 50                      | 230            | 100                     | 50             | 5               | 3.0                   | 12 | 4   | M606    | 450                  | Fig. H3                              |
| 6DI50C-050  | 600              | 600              | 450                       | 50                      | 230            | 100                     | 50             | 5               | 1.5                   | 12 | 3   | M603    | 450                  | Fig. H2                              |
| 6DI75A-050  | 600              | 600              | 450                       | 75                      | 350            | 100                     | 75             | 5               | 1.5                   | 12 | 3   | M603    | 450                  | Fig. H2                              |
| 6DI100A-050 | 600              | 600              | 450                       | 100                     | 400            | 80                      | 100            | 5               | 3.0                   | 15 | 4   | M603    | 450                  | Fig. H2                              |
| 6DI10A-120  | 1200             | 1200             | 1200                      | 10                      | 100            | 70                      | 10             | 5               | 3.0                   | 15 | 3   | M604    | 150                  | Fig. J2                              |
| 6DI15A-120  | 1200             | 1200             | 1200 *                    | 15                      | 150            | 70                      | 15             | 5               | 3.0                   | 15 | 3   | M605    | 210                  | Fig. J1                              |
| 6DI30A-120  | 1200             | 1200             | 1200 *                    | 30                      | 230            | 70                      | 30             | 5               | 3.0                   | 15 | 3   | M606    | 450                  | Fig. J1                              |

\* V<sub>CEX</sub> (sus)

### 32 Low voltage high current power transistor modules

- Terminal layout in which drive wiring and power wiring do not come accross.
- Power transistors and free wheel diodes are built into one package.

| Device type | V <sub>CB0</sub> | V <sub>CE0</sub> | V <sub>CEX</sub><br>(sus) | I <sub>c</sub><br>cont. | P <sub>c</sub> | h <sub>FE</sub><br>min. | I <sub>c</sub> | V <sub>CE</sub> | Switching time (Max.) |    |   | Package | Net<br>mass<br>Grams | Equivalent<br>circuit<br>Page 32 |
|-------------|------------------|------------------|---------------------------|-------------------------|----------------|-------------------------|----------------|-----------------|-----------------------|----|---|---------|----------------------|----------------------------------|
|             | Volts            | Volts            | Volts                     | Amps.                   | Watts          |                         |                |                 |                       |    |   |         |                      |                                  |
| 2DI200A-020 | 300              | 300              | 250                       | 200                     | 500            | 100                     | 200            | 5               | 2.0                   | 12 | 3 | M203    | 450                  | Fig. C4                          |