



BIPOLAR TRANSISTOR MODULES

Ratings and Specifications

26 600 volts class power transistor modules

- Power transistors and free wheel diodes are built into one package.
- All terminals are insulated from mounting plate.
- Suited for motor control applications with 220 to 240 volts inputs.
- All terminals are screw-clamp type.

| Device type | V _{CB0} | V _{CEO} | V _{CEO} | I _c | P _c | h _{FE} | I _c | | Switching time (Max.) | | | Package | Net mass Grams | Equivalent circuit Page 31, 32 |
|-------------|------------------|------------------|------------------|----------------|----------------|-----------------|----------------|----------------------|-----------------------|-----------------------|------------------------|---------|----------------|--------------------------------|
| | Volts | Volts | (sus) Volts | cont. Amps. | Watts | | min. | I _c Amps. | V _{CE} Volts | t _{on} μsec. | t _{stg} μsec. | | | |
| 2DI75D-055A | 600 | 600 | 550 | 75 | 350 | 70 | 75 | 5 | 3.0 | 12 | 4 | M208 | 175 | Fig. C2 |
| 2DI240A-055 | 600 | 600 | 550 | 240 | 1000 | 70 | 240 | 5 | 2.0 | 12 | 3 | M207 | 550 | Fig. C3 |
| 1DI240A-055 | 600 | 600 | 550 | 240 | 1000 | 70 | 240 | 5 | 2.0 | 12 | 3 | M104 | 450 | Fig. B10 |
| 1DI480A-055 | 600 | 600 | 550 | 480 | 2000 | 70 | 480 | 5 | 2.0 | 12 | 3 | M105 | 560 | Fig. B10 |
| EVL31-055 | 600 | 600 | 550 | 100 | 500 | 70 | 100 | 5 | 2.0 | 12 | 3 | M203 | 450 | Fig. C4 |
| EVL32-055 | 600 | 600 | 550 | 120 | 500 | 70 | 120 | 5 | 2.0 | 12 | 3 | M203 | 450 | Fig. C4 |
| ETN81-055 | 600 | 600 | 550 | 200 | 1000 | 70 | 200 | 5 | 2.0 | 12 | 3 | M104 | 450 | Fig. B10 |

27 3-terminal type 600 volts class power transistor modules

- Terminal layout in which drive wiring and power wiring do not come across.
- Suited for motor control applications with 200V AC input and power supplies.

| Device type | V _{CB0} | V _{CEO} | V _{CEO} | I _c | P _c | h _{FE} | I _c | | Switching time (Max.) | | | Package | Net mass Grams | Equivalent circuit Page 31, 32 |
|-------------|------------------|------------------|------------------|----------------|----------------|-----------------|----------------|----------------------|-----------------------|-----------------------|------------------------|---------|----------------|--------------------------------|
| | Volts | Volts | (sus) Volts | cont. Amps. | Watts | | min. | I _c Amps. | V _{CE} Volts | t _{on} μsec. | t _{stg} μsec. | | | |
| ETF81-050 | 600 | 600 | 450 | 15 | 120 | 100 | 15 | 5 | 1.0 | 12 | 2 | M101 | 33 | Fig. B9 |
| EVG31-050A | 600 | 600 | 450 | 30 | 200 | 100 | 30 | 5 | 3.0 | 12 | 4 | M201 | 90 | Fig. C1 |
| ETG81-050A | 600 | 600 | 450 | 30 | 200 | 100 | 30 | 5 | 3.0 | 12 | 4 | M102 | 100 | Fig. B9 |
| ETK81-050 | 600 | 600 | 450 | 50 | 300 | 100 | 50 | 5 | 3.0 | 12 | 4 | M102 | 100 | Fig. B9 |
| EVK31-050 | 600 | 600 | 450 | 50 | 300 | 100 | 50 | 5 | 3.0 | 12 | 4 | M201 | 90 | Fig. C1 |
| ETK85-050 | 600 | 600 | 450 | 75 | 350 | 70 | 75 | 5 | 2.0 | 10 | 2.5 | M102 | 100 | Fig. B9 |
| EVK71-050 | 600 | 600 | 450 | 75 | 350 | 70 | 75 | 5 | 2.0 | 10 | 2.5 | M202 | 235 | Fig. C4 |
| EVL31-050 | 600 | 600 | 450 | 100 | 500 | 100 | 100 | 5 | 2.0 | 10 | 3 | M203 | 450 | Fig. C4 |
| EVM31-050A | 600 | 600 | 450 | 150 | 600 | 70 | 150 | 5 | 2.0 | 10 | 2.5 | M203 | 450 | Fig. C4 |
| ETN85-050 | 600 | 600 | 450 | 300 | 1200 | 70 | 300 | 5 | 2.0 | 12 | 2.5 | M104 | 450 | Fig. B10 |
| ETL81-050 | 600 | 600 | 500 | 100 | 600 | 100 | 100 | 5 | 3.0 | 10 | 3 | M103 | 200 | Fig. B10 |
| 2DI30D-050A | 600 | 600 | 450 | 30 | 250 | 100 | 30 | 5 | 3.0 | 12.0 | 4.0 | M208 | 175 | Fig. C2 |
| 2DI50D-050A | 600 | 600 | 450 | 50 | 310 | 100 | 50 | 5 | 3.0 | 12.0 | 4.0 | M208 | 175 | Fig. C2 |
| 2DI75D-050A | 600 | 600 | 450 | 75 | 350 | 100 | 75 | 5 | 3.0 | 12.0 | 4.0 | M208 | 175 | Fig. D2 |
| 2DI100D-050 | 600 | 600 | 450 | 100 | 620 | 100 | 100 | 5 | 3.0 | 12.0 | 4.0 | M205 | 340 | Fig. C3 |
| 2DI150D-050 | 600 | 600 | 450 | 150 | 690 | 100 | 150 | 5 | 3.0 | 12.0 | 4.0 | M205 | 340 | Fig. C3 |
| 2DI200A-050 | 600 | 600 | 450 | 200 | 900 | 80 | 200 | 5 | 2.0 | 12.0 | 3 | M207 | 550 | Fig. C5 |
| 2DI300A-050 | 600 | 600 | 450 | 300 | 1200 | 70 | 300 | 5 | 2.0 | 12.0 | 2.5 | M207 | 550 | Fig. C5 |