

# Power Darlington Modules

T-33-29



## 4 PACK/6 PACK

| Device Type | V <sub>CEO</sub> Volts | V <sub>CEX</sub> Volts | V <sub>CEX</sub> V <sub>CEO</sub> (sus) Volts | I <sub>C</sub> cont. Amps | P <sub>C</sub> Watts (per Xstr.) | h <sub>FE</sub> @ min. | I <sub>C</sub> Amps | V <sub>CE</sub> Volts | Switching time (Max.)<br>ton μsec. ts μsec. tf μsec. | Package |
|-------------|------------------------|------------------------|-----------------------------------------------|---------------------------|----------------------------------|------------------------|---------------------|-----------------------|------------------------------------------------------|---------|
|-------------|------------------------|------------------------|-----------------------------------------------|---------------------------|----------------------------------|------------------------|---------------------|-----------------------|------------------------------------------------------|---------|

### 4-PACK DARLINGTON MODULES

|            |     |     |     |    |     |     |    |   |     |     |     |      |
|------------|-----|-----|-----|----|-----|-----|----|---|-----|-----|-----|------|
| EVF31H-035 | 500 | 500 | 350 | 20 | 80  | 50  | 10 | 5 | 0.8 | 2.5 | 1   | M401 |
| EVF31H-050 | 600 | 600 | 450 | 15 | 100 | 100 | 15 | 5 | 1.5 | 12  | 2.5 | M401 |
| 4DI30A-030 | 300 | 300 | 300 | 30 | 100 | 75  | 20 | 5 | 1.5 | 4   | 1   | M605 |

### 6-PACK DARLINGTON MODULES

|             |      |      |       |     |     |     |     |   |     |    |     |      |
|-------------|------|------|-------|-----|-----|-----|-----|---|-----|----|-----|------|
| 6DI10A-050  | 600  | 600  | 450   | 10  | 80  | 100 | 10  | 5 | 1   | 12 | 2   | M601 |
| 6DI10A-120  | 1200 | 1200 | 1200  | 10  | 100 | 70  | 10  | 5 | 3   | 15 | 3   | M604 |
| EVF33T-040  | 450  | 450  | 400   | 15  | 80  | 100 | 15  | 5 | 1   | 12 | 2   | M601 |
| EVF31T-050A | 600  | 600  | 450   | 15  | 100 | 100 | 15  | 5 | 1.5 | 15 | 2.5 | M602 |
| 6DI15A-050  | 600  | 600  | 450   | 15  | 80  | 100 | 15  | 5 | 1   | 12 | 2   | M604 |
| 6DI15A-120  | 1200 | 1200 | 1200* | 15  | 150 | 70  | 15  | 5 | 3   | 15 | 3   | M605 |
| 6DI15S-050  | 600  | 600  | 450   | 15  | 60  | 100 | 15  | 5 | 1   | 12 | 2   | SIL  |
| 6DI20C-050  | 600  | 600  | 450   | 20  | 100 | 100 | 20  | 5 | 1   | 12 | 1   | M604 |
| 6DI30A-050  | 600  | 600  | 450   | 30  | 150 | 100 | 30  | 5 | 3   | 12 | 4   | M603 |
| 6DI30A-120  | 1200 | 1200 | 1200* | 30  | 230 | 70  | 30  | 5 | 3   | 15 | 3   | M606 |
| 6DI30B-050  | 600  | 600  | 450   | 30  | 150 | 100 | 30  | 5 | 1   | 12 | 2   | M605 |
| 6DI30Z-100  | 1000 | 1000 | 1000  | 30  | 300 | 100 | 30  | 5 | 2.5 | 12 | 2   | M613 |
| 6DI30Z-120  | 1200 | 1200 | 1200  | 30  | 230 | 100 | 30  | 5 | 3   | 15 | 2   | M606 |
| 6DI50B-050  | 600  | 600  | 450   | 50  | 230 | 100 | 50  | 5 | 3   | 12 | 4   | M606 |
| 6DI50C-050  | 600  | 600  | 450   | 50  | 230 | 100 | 50  | 5 | 3   | 12 | 4   | M603 |
| 6DI50A-055  | 600  | 600  | 550   | 50  | 230 | 70  | 50  | 5 | 3   | 12 | 4   | M603 |
| 6DI50Z-120  | 1200 | 1200 | 1200  | 50  | 300 | 100 | 50  | 5 | 3   | 15 | 2   | M606 |
| 6DI75A-050  | 600  | 600  | 450   | 75  | 350 | 100 | 75  | 5 | 3   | 12 | 4   | M603 |
| 6DI75B-050  | 600  | 600  | 450   | 75  | 350 | 100 | 75  | 5 | 3   | 12 | 4   | M606 |
| 6DI100A-050 | 600  | 600  | 450   | 100 | 400 | 80  | 100 | 5 | 3   | 15 | 4   | M603 |

## 600 VOLT M-SERIES, HIGH hFE

| Device Type | V <sub>CEO</sub> (sus) Volts | V <sub>CEX</sub> (sus) Volts | I <sub>C</sub> Amps | DC Current Gain T <sub>J</sub> =125°C<br>h <sub>FE</sub> @ min. | I <sub>C</sub> Amps | V <sub>CE</sub> Volts | P <sub>C</sub> (w/xstr.) | Switching Time T <sub>J</sub> =25°C<br>tstg. μs | I <sub>C</sub> Amps | I <sub>ES</sub> mA | I <sub>ES</sub> Amps | Package |
|-------------|------------------------------|------------------------------|---------------------|-----------------------------------------------------------------|---------------------|-----------------------|--------------------------|-------------------------------------------------|---------------------|--------------------|----------------------|---------|
|-------------|------------------------------|------------------------------|---------------------|-----------------------------------------------------------------|---------------------|-----------------------|--------------------------|-------------------------------------------------|---------------------|--------------------|----------------------|---------|

### 1 PACK

|              |     |     |     |      |     |     |      |   |     |     |      |      |
|--------------|-----|-----|-----|------|-----|-----|------|---|-----|-----|------|------|
| 1DI30MA-050  | 450 | 600 | 30  | 750  | 30  | 2.5 | 200  | 8 | 30  | 40  | 0.6  | M102 |
| 1DI50MA-050  | 450 | 600 | 50  | 750  | 50  | 2.5 | 310  | 8 | 50  | 67  | -1.0 | M102 |
| 1DI100MA-050 | 450 | 600 | 100 | 1000 | 100 | 2.5 | 600  | 8 | 100 | 100 | -2.0 | M103 |
| 1DI200MA-050 | 450 | 600 | 200 | 2000 | 200 | 2.5 | 1000 | 8 | 200 | 100 | -4.0 | M104 |
| 1DI300M-050  | 450 | 600 | 300 | 3000 | 300 | 2.5 | 1380 | 8 | 300 | 100 | -6.0 | M109 |
| 1DI400M-050  | 450 | 600 | 400 | 2000 | 400 | 2.5 | 1500 | 8 | 400 | 200 | -6.0 | M109 |

### 2 PACK

|             |     |     |     |      |     |     |     |   |     |     |      |      |
|-------------|-----|-----|-----|------|-----|-----|-----|---|-----|-----|------|------|
| 2DI30M-050  | 450 | 600 | 30  | 750  | 30  | 2.5 | 250 | 8 | 30  | 40  | -0.6 | M208 |
| 2DI50M-050  | 450 | 600 | 50  | 750  | 50  | 2.5 | 310 | 8 | 50  | 67  | -1.0 | M208 |
| 2DI75M-050  | 450 | 600 | 75  | 750  | 75  | 2.5 | 350 | 8 | 75  | 100 | -1.5 | M208 |
| 2DI100M-050 | 450 | 600 | 100 | 1000 | 100 | 2.5 | 620 | 8 | 100 | 100 | -2.0 | M205 |
| 2DI150M-050 | 450 | 600 | 150 | 1500 | 150 | 2.5 | 690 | 8 | 150 | 100 | -3.0 | M205 |
| 2DI200M-050 | 450 | 600 | 200 | 2000 | 200 | 2.5 | 800 | 8 | 200 | 100 | -4.0 | M210 |

### 6 PACK

|            |     |     |     |      |     |     |     |   |     |     |      |      |
|------------|-----|-----|-----|------|-----|-----|-----|---|-----|-----|------|------|
| 6DI30M-050 | 450 | 600 | 30  | 750  | 30  | 2.5 | 200 | 8 | 30  | 40  | -0.6 | M607 |
| 6DI50M-050 | 450 | 600 | 50  | 750  | 50  | 2.5 | 310 | 8 | 50  | 67  | -1.0 | M609 |
| 6DI75M-050 | 450 | 600 | 75  | 750  | 75  | 2.5 | 350 | 8 | 75  | 100 | -1.5 | M609 |
| 6DI100-050 | 450 | 600 | 100 | 1000 | 100 | 2.5 | 400 | 8 | 100 | 100 | -2.0 | M610 |

### SIL 6 PACK

|             |     |     |    |     |    |     |    |   |    |     |       |     |
|-------------|-----|-----|----|-----|----|-----|----|---|----|-----|-------|-----|
| 6DI10MS-050 | 450 | 600 | 10 | 100 | 10 | 2.0 | 50 | 8 | 10 | 100 | -0.3A | SIL |
| 6DI15MS-050 | 450 | 600 | 15 | 150 | 15 | 2.5 | 60 | 8 | 15 | 100 | -0.3A | SIL |
| 6DI20MS-050 | 450 | 600 | 20 | 200 | 20 | 2.5 | 80 | 8 | 20 | 100 | -0.3A | SIL |

## NEW 1200 VOLT M-SERIES, HIGH hFE

| Device Type | V <sub>CEO</sub> (sus) Volts | V <sub>CEX</sub> (sus) Volts | I <sub>C</sub> Amps | DC Current Gain T <sub>J</sub> =125°C<br>h <sub>FE</sub> @ min. | I <sub>C</sub> Amps | V <sub>CE</sub> Volts | P <sub>C</sub> (w/xstr.) | Switching Time T <sub>J</sub> =25°C<br>tstg. μs | I <sub>C</sub> Amps | I <sub>ES</sub> mA | I <sub>ES</sub> Amps | Package |
|-------------|------------------------------|------------------------------|---------------------|-----------------------------------------------------------------|---------------------|-----------------------|--------------------------|-------------------------------------------------|---------------------|--------------------|----------------------|---------|
|-------------|------------------------------|------------------------------|---------------------|-----------------------------------------------------------------|---------------------|-----------------------|--------------------------|-------------------------------------------------|---------------------|--------------------|----------------------|---------|

### 1 PACK

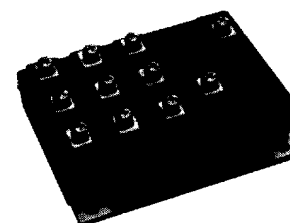
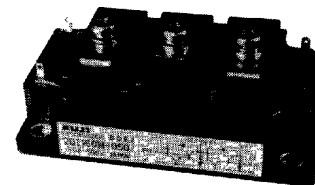
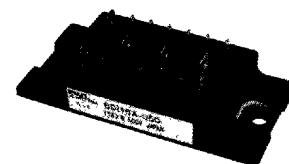
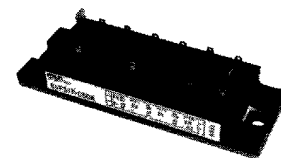
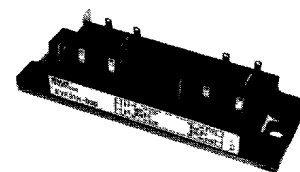
|              |     |      |     |      |     |   |      |    |     |     |      |      |
|--------------|-----|------|-----|------|-----|---|------|----|-----|-----|------|------|
| 1DI200M-120  | 900 | 1200 | 200 | 1000 | 200 | 4 | 1400 | 15 | 200 | 200 | -4.0 | M106 |
| 1DI300M-120  | 900 | 1200 | 300 | 1500 | 300 | 4 | 2000 | 15 | 300 | 200 | -6.0 | M106 |
| 1DI400MN-120 | 900 | 1200 | 400 | 2000 | 400 | 4 | 3000 | 15 | 400 | 200 | -8.0 | M118 |
| 1DI400MP-120 | 900 | 1200 | 400 | 2000 | 400 | 4 | 3000 | 15 | 400 | 200 | -8.0 | M117 |

### 2 PACK

|             |     |      |     |      |     |   |      |      |     |     |      |      |
|-------------|-----|------|-----|------|-----|---|------|------|-----|-----|------|------|
| 2DI50M-120  | 900 | 1200 | 50  | 500  | 50  | 4 | 310  | 15.0 | 50  | 100 | 1.0  | M204 |
| 2DI75M-120  | 900 | 1200 | 75  | 750  | 75  | 4 | 500  | 15.0 | 75  | 100 | -1.5 | M209 |
| 2DI100M-120 | 900 | 1200 | 100 | 1000 | 100 | 4 | 800  | 15.0 | 100 | 100 | -2.0 | M210 |
| 2DI150M-120 | 900 | 1200 | 150 | 1500 | 150 | 4 | 1000 | 15.0 | 150 | 100 | -3.0 | M210 |

### 6 PACK

|            |     |      |    |     |    |   |     |      |    |     |      |      |
|------------|-----|------|----|-----|----|---|-----|------|----|-----|------|------|
| 6DI15M-120 | 900 | 1200 | 15 | 150 | 15 | 3 | 150 | 15.0 | 15 | 100 | -0.3 | M607 |
| 6DI30M-120 | 900 | 1200 | 30 | 300 | 30 | 4 | 300 | 15.0 | 30 | 100 | -0.6 | M613 |
| 6DI50M-120 | 900 | 1200 | 50 | 500 | 50 | 4 | 310 | 15.0 | 50 | 100 | -1.0 | M609 |



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FAX 214/233-0481