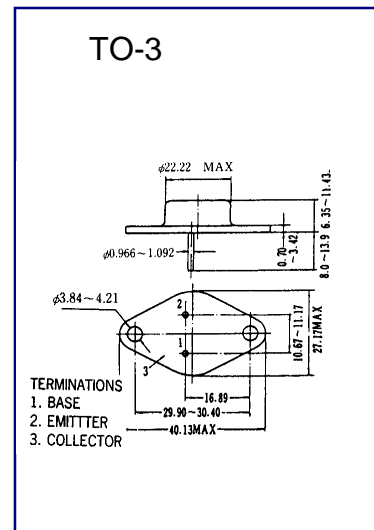




**MJ10000**

**NPN SILICON TRANSISTOR**

**SWITCHING REGULATORS PWM INVERTERS  
SOLENOID AND RELAY DRIVERS**



**ABSOLUTE MAXIMUM RATINGS (Ta=25°C)**

| Characteristic                  | Symbol | Rating  | Unit |
|---------------------------------|--------|---------|------|
| Collector-Base Voltage          | VCBO   | 450     | V    |
| Collector-Emitter Voltage       | VCEO   | 350     | V    |
| Collector Current (DC)          | IC     | 20      | A    |
| Collector Dissipation (Tc=25°C) | PC     | 175     | W    |
| Junction Temperature            | Tj     | 200     | °C   |
| Storage Temperature             | Tstg   | -50~150 | °C   |

**ELECTRICAL CHARACTERISTICS (Ta=25°C)**

| Characteristic                        | Symbol   | Test Condition   | Min | Typ | Max | Unit |
|---------------------------------------|----------|------------------|-----|-----|-----|------|
| Collector Cutoff Current              | ICBO     | VCB= 450V , IE=0 |     |     | 10  | μA   |
| Collector Cutoff Current              | ICEO     | VCB= 350V , IB=0 |     |     | 10  | μA   |
| DC Current Gain                       | hFE      | VCE= 5V , IC=10A | 40  |     |     |      |
| Collector- Emitter Saturation Voltage | VCE(sat) | IC=8A , IB=0.8A  |     |     | 1.5 | V    |