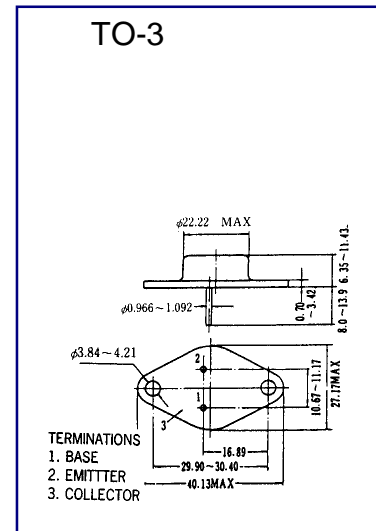




MJ10009

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 | 700 | V |
| Collector-Emitter Voltage | VCEO | 500 | 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= 700V , IE=0 | | | 10 | μA |
| Collector Cutoff Current | ICEO | VCB= 500V , IB=0 | | | 10 | μA |
| DC Current Gain | hFE | VCE= 5V , IC=10A | 30 | | | |
| Collector- Emitter Saturation Voltage | VCE(sat) | IC=6A , IB=0.6A | | | 1.5 | V |