

MJE340



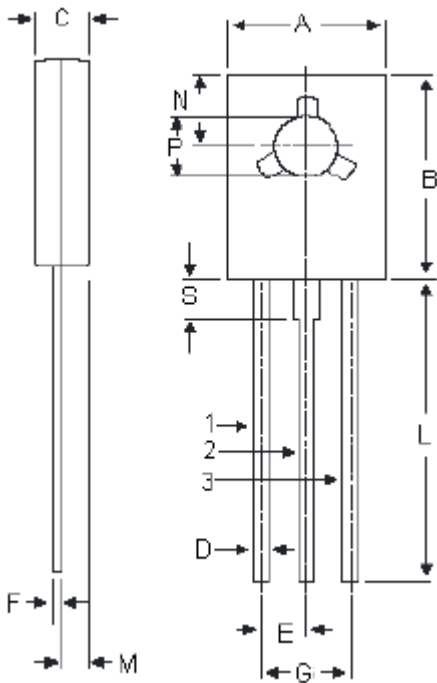
Medium Power NPN Transistors



Features:

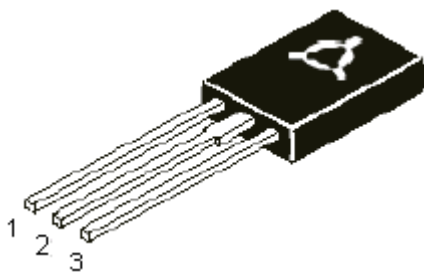
- NPN Plastic Medium Power Silicon Transistor.
- Useful for High Voltage General Purpose Applications.

TO-126 Plastic Package



| Dimensions | Minimum | Maximum |
|------------|----------------|---------|
| A | 7.4 | 7.8 |
| B | 10.5 | 10.8 |
| C | 2.4 | 2.7 |
| D | 0.7 | 0.9 |
| E | 2.25 (Typical) | |
| F | 0.49 | 0.75 |
| G | 4.5 (Typical) | |
| L | 15.7 (Typical) | |
| M | 1.27 (Typical) | |
| N | 3.75 (Typical) | |
| P | 3.0 | 3.2 |
| S | 2.5 (Typical) | |

Dimensions : Millimetres



Pin Configuration:

1. Emitter
2. Collector
3. Base



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Absolute Maximum Ratings

| Description | Symbol | Rating | Unit |
|--|----------------|-------------|---------------------------|
| Collector Base Voltage | V_{CBO} | 300 | V |
| Collector Emitter Voltage | V_{CEO} | | |
| Emitter Base Voltage | V_{EBO} | | |
| Collector Current Continuous | I_C | 500 | mA |
| Power Dissipation at $T_c = 25^\circ\text{C}$ Derate above 25°C | P_D | 20 0.16 | W mW/ $^\circ\text{C}$ |
| Operating and Storage Junction Temperature Range | T_j, T_{stg} | -65 to +150 | $^\circ\text{C}$ |
| Thermal Resistance | | | |
| Junction to Case | $R_{th(j-c)}$ | 6.25 | $^\circ\text{C/W}$ |
| Junction to Ambient | $R_{th(j-a)}$ | 83.3 | |

Electrical Characteristics ($T_c = 25^\circ\text{C}$ unless specified otherwise)

| Parameter | Symbol | Test Condition | Minimum | Maximum | Unit |
|--------------------------------------|----------------|---|---------|---------|---------------|
| Collector Emitter Sustaining Voltage | $V_{CEO(SUS)}$ | $I_C = 1\text{mA}, I_B = 0$ | 300 | - | V |
| Collector Cut off Current | I_{CBO} | $V_{CB} = 300\text{V}, I_E = 0$ | - | 100 | μA |
| Emitter Cut off Current | I_{EBO} | $V_{BE} = 3\text{V}, I_C = 0$ | - | | |
| DC Current Gain | h_{FE} | $I_C = 0.05\text{A}, V_{CE} = 10\text{V}$ | 30 | 240 | - |

Specifications

| I_C Maximum (A) | V_{CEO} Maximum (V) | h_{FE} Minimum at $I_C = 0.05\text{A}$ | P_{tot} at 25°C (W) | Package | Type | Part Number |
|-------------------------|-----------------------------|--|---|---------|------|-------------|
| 0.5 | 300 | 30 | 20 | TO-126 | NPN | MJE340 |



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Notes:

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