

Silicon N-Channel Power MOSFET

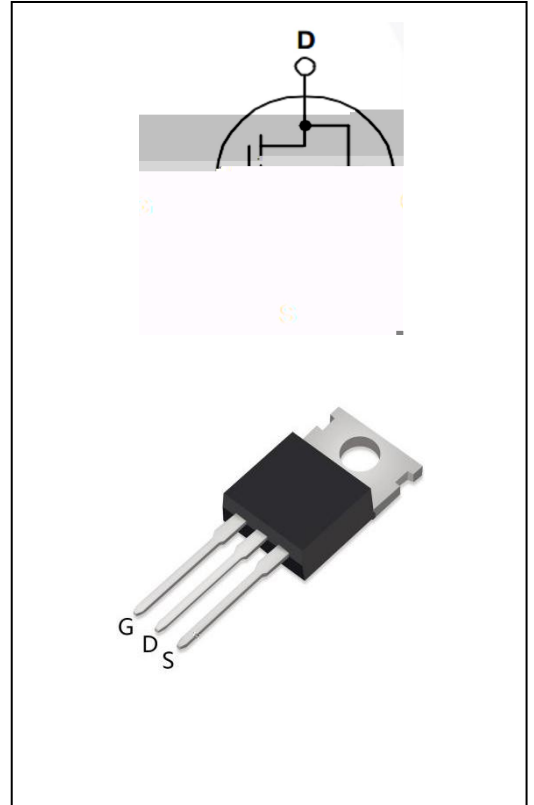
Description

General Features

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Application

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Electrical Characteristics °C

a) Absolute Maximum Ratings:

| Symbol | Parameter | Value | Units |
|--------|-----------|-------|-------|
| | | | |
| | | | °C |
| | | | |
| | | | °C |
| | | | °C |
| | | | °C |
| | | | °C |
| | | | °C |

b) Electrical Parameters:

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Unit |
|--------|-----------|-----------------|-----|-----|-----|----------|
| | | μ | | | | |
| | | | | | | Ω |
| | | μ | | | | |
| | | | | | | μ |
| | | | | | 100 | nA |
| | | | | | | nA |
| | | | | | | |
| | | | | | | |
| | | | | | | |

c) Switching Characteristics

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Unit |
|--------|-----------|-----------------|-----|-----|-----|------|
| | | | | | | |
| | | | | | | |
| | | Ω | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

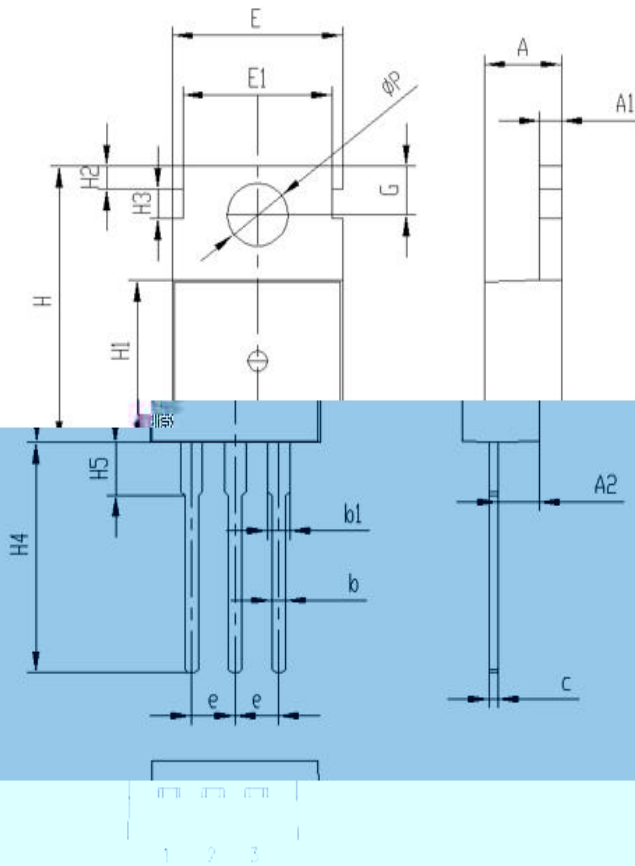
d) Source-Drain Diode Characteristics

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Unit |
|--------|-----------|--------------------|-----|-----|-----|-------|
| | | | | | | |
| | | | | | | |
| | | $^{\circ}\text{C}$ | | | | |
| | | | | | | μ |
| | | μ | | | | |

| Symbol | Parameter | Typ | Units |
|-----------------------|---------------------|------|-----------------------------|
| $R_{\theta\text{JC}}$ | Junction-to-Case | 3.75 | $^{\circ}\text{C}/\text{W}$ |
| $R_{\theta\text{JA}}$ | Junction-to-Ambient | 100 | $^{\circ}\text{C}/\text{W}$ |

Package Information

TO-220C PACKAGE



| Symbol | 单位 mm | | |
|--------|-------|------|------|
| | Min | Nom | Max |
| A | 4.30 | 4.5 | 4.70 |
| A1 | 1.20 | 1.30 | 1.40 |
| A2 | 2.20 | 2.4 | 2.60 |
| b | 0.60 | 0.8 | 1.00 |
| b1 | 1.20 | 1.30 | 1.40 |
| c | 0.40 | 0.5 | 0.60 |
| e | 2.44 | 2.54 | 2.64 |
| E | 9.80 | 10.0 | 10.2 |
| E1 | 8.50 | 8.70 | 8.90 |
| H | 15.5 | 15.7 | 15.9 |
| H1 | 9.00 | 9.2 | 9.40 |
| H2 | 1.10 | 1.34 | 1.50 |
| H3 | 1.50 | 1.7 | 1.90 |
| H4 | 12.9 | 13.3 | 13.7 |
| H5 | 2.80 | 3.0 | 3.20 |
| G | 2.60 | 2.8 | 3.00 |
| ΦP | 3.40 | 3.6 | 3.80 |

Notice

-Headquarters