

2SJ164

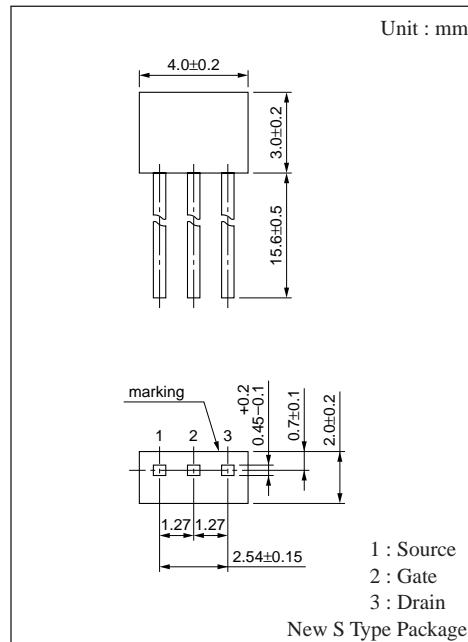
Silicon P-Channel Junction

For switching

Complementary with 2SK1104

■ Features

- Low ON-resistance
- Low-noise characteristics



■ Absolute Maximum Ratings (Ta = 25°C)

| Parameter | Symbol | Rating | Unit |
|-----------------------------|------------------|-------------|------|
| Gate-Drain voltage | V _{GDS} | 65 | V |
| Drain current | I _D | -20 | mA |
| Gate current | I _G | -10 | mA |
| Allowable power dissipation | P _D | 300 | mW |
| Channel temperature | T _{ch} | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |

■ Electrical Characteristics (Ta = 25°C)

| Parameter | Symbol | Condition | Min | Typ | Max | Unit |
|------------------------------|---------------------|---|-------|-----|-----|------|
| Drain-Source cut-off current | I _{DSS} * | V _{DS} = -10V, V _{GS} = 0 | - 0.2 | | - 6 | mA |
| Gate-Source leakage current | I _{GSS} | V _{GS} = 30V, V _{DS} = 0 | | | 10 | nA |
| Gate-Drain voltage | V _{GDS} | I _G =10µA, V _{DS} = 0 | 65 | | | V |
| Gate-Source cut-off voltage | V _{GSC} | V _{DS} = -10V, I _D = -10µA | | 1.5 | 3.5 | V |
| Forward transadmittance | Y _{fs} | V _{DS} = -10V, I _D = -1mA, f=1kHz | 1.8 | 2.5 | | mS |
| Drain-Source ON-resistance | R _{DS(ON)} | V _{DS} = -10mV, V _{GS} = 0 | | 300 | | Ω |
| Input capacitance | C _{iss} | V _{DS} = -10V, V _{GS} = 0, f=1MHz | | 10 | | pF |
| Output capacitance | C _{oss} | | | 3 | | pF |
| Feedback capacitance | C _{rss} | | | 3 | | pF |

* I_{DSS} rank classification

| Rank | O | P | Q | R |
|-----------------------|-------------|---------------|----------|-------------|
| I _{DSS} (mA) | - 0.2 to -1 | - 0.6 to -1.5 | -1 to -3 | - 2.5 to -6 |

