2SK0663G

Silicon N-channel junction FET

For low-frequency amplification For switching circuits

Features

- Low noise figure NF
- \bullet High gate-drain voltage (source open) V_{GDO}
- SMini type package, allowing downsizing of the sets and automatic insertion through the tape/magazine packing

Absolute Maximum Ratings $T_a = 25^{\circ}C$

| • | | | | |
|----------------------------------|------------------|---------------------------|------|--|
| Parameter | Symbol | Rating | Unit | |
| Drain-sourse voltage | V _{DS} | 55 | V | |
| Gate-drain voltage (Source open) | V _{GDO} | -55 | V | |
| Gate-source voltage (Drain open) | V _{GSO} | -55 | V | |
| Drain current | ID | 30 | mA | |
| Gate current | I _G | 10 | mA | |
| Power dissipation | P _D | 150 | mW | |
| Channel temperature | T _{ch} | 150 | °C | |
| Storage temperature | T _{stg} | <mark>-</mark> 55 to +150 | °C | |
| | | | | |

Package

- Code
- SMini3-F2 • Pin Name
- 1 III Name
- 1: Source 2: Drain
- 3: Gate

Marking Symbol: 2B

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

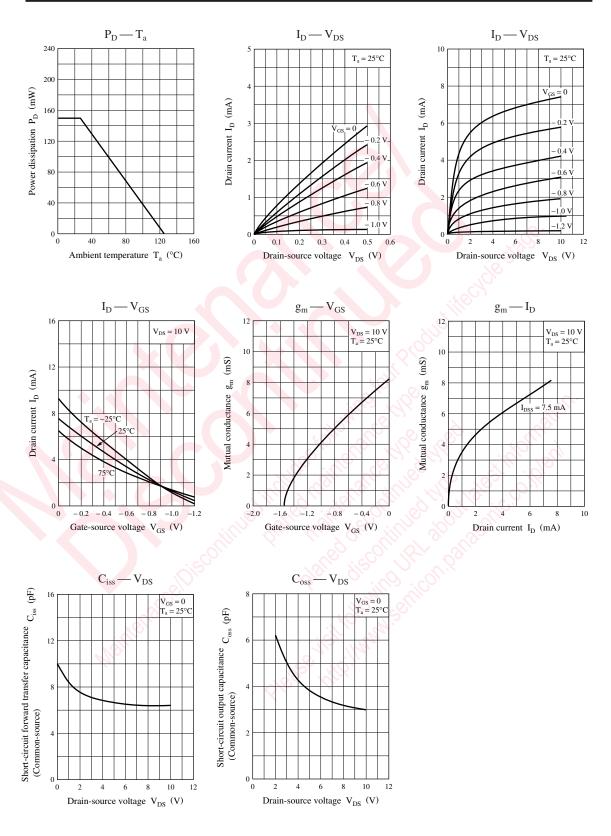
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--|------------------|---|-----|-----|------|------|
| Gate-drain surrender voltage | V _{GDS} | $I_{G} = -100 \ \mu A, V_{DS} = 0$ | 55 | 80 | | V |
| Drain-source current * | I _{DSS} | $V_{DS} = 10 V, V_{GS} = 0$ | 1.0 | 0 | 12.0 | mA |
| Gate-source cutoff current | I _{GSS} | $V_{GS} = -30 V, V_{DS} = 0$ | 2.2 | | -10 | nA |
| Gate-source cutoff voltage | V _{GSC} | $V_{DS} = 10 \text{ V}, I_D = 10 \mu \text{A}$ | | | -5 | V |
| Forward transfer admittance | Y _{fs} | $V_{DS} = 10 \text{ V}, \text{ I}_{D} = 5 \text{ mA}, \text{ f} = 1 \text{ kHz}$ | 2.5 | 7.5 | | mS |
| Short-circuit forward transfer capacitance (Common source) | C _{iss} | $V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$ | | 6.5 | | pF |
| Reverse transfer capacitance (Common source) | C _{rss} | Se rollm | | 1.9 | | pF |
| 2 | | $V_{DS} = 10 \text{ V}, V_{GS} = 0, \text{f} = 100 \text{ Hz}$ $R_g = 100 \text{ k}\Omega$ | | 2.5 | | dB |

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. *: Rank classification

| Rank | nk P Q | | R |
|-----------------------|------------|------------|-------------|
| I _{DSS} (mA) | 1.0 to 3.0 | 2.0 to 6.5 | 5.0 to 12.0 |

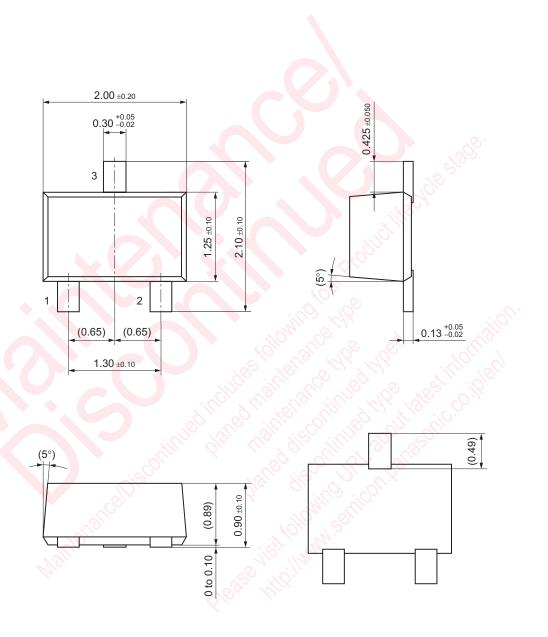
Note) The part number in the parenthesis shows conventional part number.

Panasonic



SMini3-F2

Unit: mm



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