

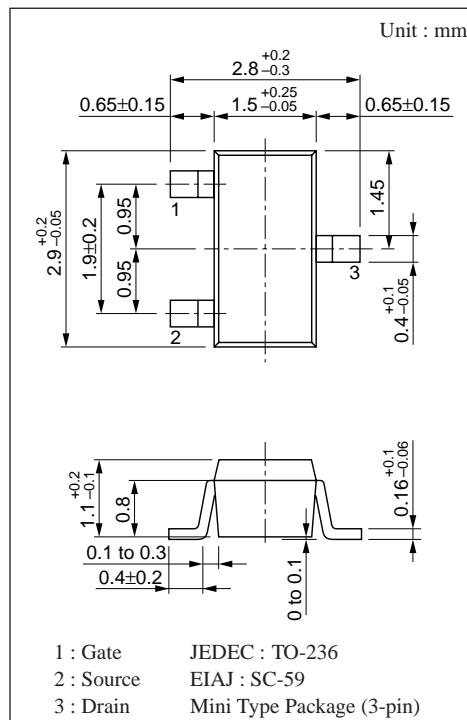
2SK620

Silicon N-Channel MOS

For switching

■ Features

- High-speed switching
- Downsizing of sets by mini-type package and automatic insertion by taping/magazine packing are available.



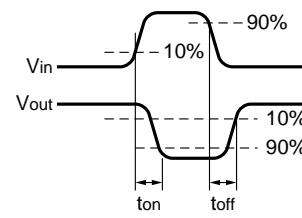
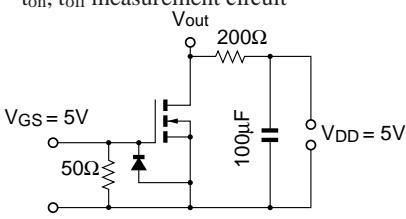
■ Absolute Maximum Ratings (Ta = 25°C)

| Parameter | Symbol | Rating | Unit |
|--------------------------------|------------------|-------------|------|
| Drain-Source breakdown voltage | V _{DS} | 50 | V |
| Gate-Source voltage | V _{GSO} | 8 | V |
| Drain current | I _D | ±100 | mA |
| Max drain current | I _{DP} | ±200 | mA |
| Allowable power dissipation | P _D | 150 | 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 | | | 10 | μA |
| Gate-Source leakage current | I _{GSS} | V _{GS} = 8V, V _{DS} = 0 | | | 50 | nA |
| Drain-Source breakdown voltage | V _{DSS} | I _D =100μA, V _{GS} = 0 | 50 | | | V |
| Gate threshold voltage | V _{th} | I _D =100μA, V _{DS} = V _{GS} | 1.5 | | 3.5 | V |
| Drain-Source ON-resistance | R _{DS(on)} | I _D = 20mA, V _{GS} = 5V | | | 50 | Ω |
| Forward transadmittance | Y _{fs} | I _D = 20mA, V _{DS} = 5V, f=1kHz | 20 | | | mS |
| Input capacitance | C _{iss} | V _{DS} = 5V, V _{GS} = 0, f=1MHz | | | 15 | pF |
| Output capacitance | C _{oss} | | | | 5 | pF |
| Feedback capacitance | C _{rss} | | | | 1 | pF |
| Turn-on time | t _{on} [*] | V _{DD} = 5V, V _{GS} = 0 to 5V, R _L = 200Ω | | 10 | | ns |
| Turn-off time | t _{off} [*] | V _{DD} = 5V, V _{GS} = 5 to 0V, R _L = 200Ω | | 20 | | ns |

* t_{on}, t_{off} measurement circuit



■ Marking

