

2SK352

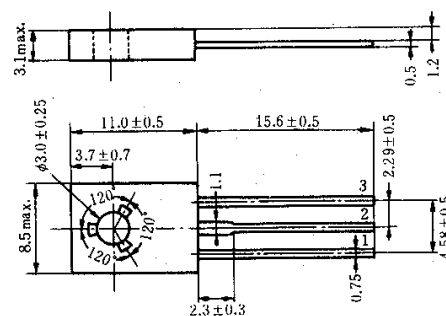
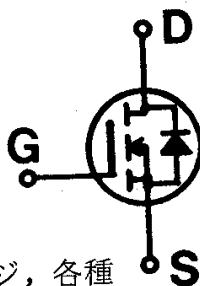
SILICON N-CHANNEL MOS FET

高速度電力スイッチング

高周波電力増幅

特 長

- 高周波特性が優れている。
- 入出力容量が低い。
- 高精細ディスプレイのビデオ出力ステージ、各種用途のドライバ等に最適。



(Dimensions in mm)

(JEDEC TO-126 MOD.)

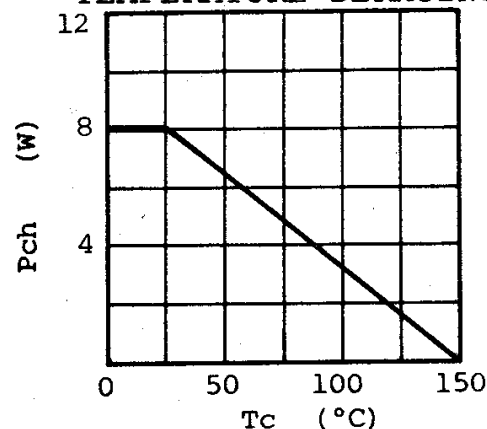
1. Source
2. Drain
3. Gate

■ ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

| Item | Symbol | Rating | Unit |
|--|----------------------|-----------------|------------------|
| Drain-Source Voltage | V_{DS} | 250 | V |
| Gate-Source Voltage | V_{GS} | ± 9 | V |
| Drain Current | I_D | 0.3 | A |
| Drain Peak Current | $I_{D(\text{peak})}$ | 0.5 | A |
| Body-Drain Diode Reverse Drain Current | I_{DR} | 0.3 | A |
| Channel Dissipation | P_{ch}^* | 8 | W |
| Channel Temperature | T_{ch} | 150 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | $-55 \sim +150$ | $^\circ\text{C}$ |

*Value at $T_c=25^\circ\text{C}$

POWER VS. TEMPERATURE DERATING



■ ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

| Item | Symbol | Test Condition | min. | typ. | max. | Unit |
|---|----------------------|--|------|------|---------|----------|
| Drain-Source Breakdown Voltage | $V_{(BR)DS}$ | $I_D=1\text{mA}$, $V_{GS}=0$ | 250 | - | - | V |
| Gate-Source Leak Current | I_{GSS} | $V_{GS}=\pm 9\text{ V}$, $V_{DS}=0$ | - | - | ± 1 | mA |
| Zero Gate Voltage Drain Current | I_{DSS} | $V_{DS}=200\text{V}$, $V_{GS}=0$ | - | - | 1 | mA |
| Gate-Source Cutoff Voltage | $V_{GS(\text{off})}$ | $I_D=1\text{mA}$, $V_{DS}=10\text{V}$ | 1.0 | - | 5.0 | V |
| Static Drain-Source On State Resistance | $R_{DS(\text{on})}$ | $I_D=0.1\text{A}$, $V_{GS}=9\text{V}$ | * | 30 | 50 | Ω |
| Drain-Source Saturation Voltage | $V_{DS(\text{on})}$ | $I_D=0.1\text{A}$, $V_{GS}=9\text{V}$ | * | 3.0 | 5.0 | V |
| Forward Transfer Admittance | $ y_{fs} $ | $I_D=0.15\text{A}$, $V_{DS}=20\text{V}$ | * | 50 | 80 | mS |
| Input Capacitance | C_{iss} | $V_{DS}=10\text{ V}$, $V_{GS}=0$ $f=1\text{MHz}$ | - | 20 | - | pF |
| Output Capacitance | C_{oss} | | - | 10 | - | pF |
| Reverse Transfer Capacitance | C_{rss} | | - | 2.5 | - | pF |

*Pulse Test