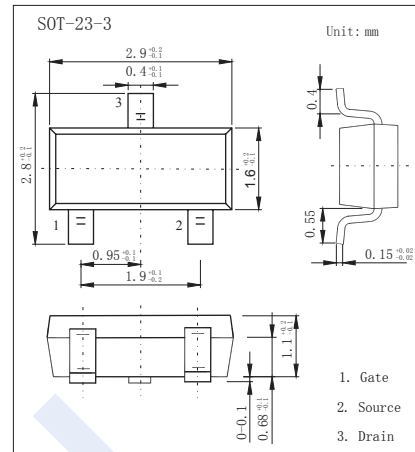
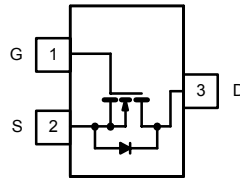


N-Channel Enhancement MOSFET

KI2310DS

■ Features

- $V_{DS}=20V$
- $I_D = 6.5A$
- $R_{DS(on)} = 22m\Omega @ V_{GS}=4.5V, I_D=6.5A$
- $R_{DS(on)} = 30m\Omega @ V_{GS}=2.5V, I_D=5.5A$

■ Absolute Maximum Ratings $T_a = 25^\circ C$

| Parameter | Symbol | Rating | Unit | |
|---------------------------|-----------|------------------|------------|---|
| Drain-Source Voltage | V_{DS} | 20 | V | |
| Gate-Source Voltage | V_{GS} | ± 10 | | |
| Continuous Drain Current | I_D | $T_A=25^\circ C$ | 6.5 | A |
| | | $T_A=70^\circ C$ | 4.8 | |
| Pulsed Drain Current | I_{DM} | 30 | | |
| Power Dissipation | P_D | $T_A=25^\circ C$ | 1.3 | W |
| | | $T_A=70^\circ C$ | 0.8 | |
| Junction Temperature | T_J | 150 | $^\circ C$ | |
| Storage Temperature Range | T_{stg} | -55 to 150 | | |

■ Electrical Characteristics $T_a = 25^\circ C$

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---------------------------------------|--------------|---|------|------|----------|-----------|
| Drain-Source Breakdown Voltage | V_{DSS} | $I_D=250 \mu A, V_{GS}=0V$ | 20 | | | V |
| Zero Gate Voltage Drain Current | I_{DSS} | $V_{DS}=20V, V_{GS}=0V$ | | | 1 | μA |
| | | $V_{DS}=20V, V_{GS}=0V, T_J=55^\circ C$ | | | 10 | |
| Gate-Body Leakage Current | I_{GSS} | $V_{DS}=0V, V_{GS}=\pm 10V$ | | | ± 10 | μA |
| Gate Threshold Voltage | $V_{GS(th)}$ | $V_{DS}=V_{GS}, I_D=250 \mu A$ | 0.45 | | 1 | V |
| Static Drain-Source On-Resistance | $R_{DS(on)}$ | $V_{GS}=4.5V, I_D=6.5A$ | | | 22 | $m\Omega$ |
| | | $V_{GS}=2.5V, I_D=5.5A$ | | | 30 | |
| Forward Transconductance *1 | g_{FS} | $V_{DS}=5V, I_D=6.5A$ | | 6 | | S |
| Maximum Body-Diode Continuous Current | I_S | | | | 1.6 | A |
| Diode Forward Voltage | V_{SD} | $I_S=1.6A, V_{GS}=0V$ | | 0.76 | 1.2 | V |

*1: Pulse test: $PW \leq 300\mu s$ duty cycle $\leq 2\%$

■ Marking

| Marking | 2310 |
|---------|------|
| | |

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