



Product Summary

| $V_{(BR)DSS}$ | $R_{DS(on)TYP}$ | I_D |
|---------------|-----------------|-------|
| 60V | 0.9Ω@10V | 340mA |
| | 1.1Ω@5V | |

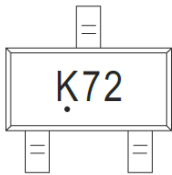
Feature

- High density cell design for Low $R_{DS(on)}$
- Voltage controlled small signal switch
- Rugged and reliable
- ESD protected Gate HBM 2.5KV

Application

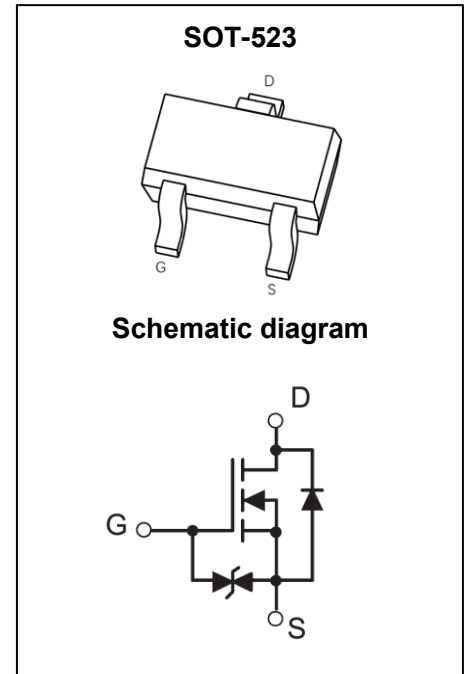
- DC/DC Converter
- Load Switch for Portable Devices
- Battery Switch

MARKING:



K72 = Device code

Soild Dot = Green device,otherwise,the normal device



ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|---|-----------|-----------|------|
| Drain-Source Voltage | V_{DS} | 60 | V |
| Gate-Source Voltage | V_{GS} | ±20 | V |
| Continuous Drain Current | I_D | 340 | mA |
| Power Dissipation | P_D | 0.225 | W |
| Thermal Resistance from Junction to Ambient | $R_{θJA}$ | 556 | °C/W |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature | T_{STG} | -55~ +150 | °C |

MOSFET ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise noted)

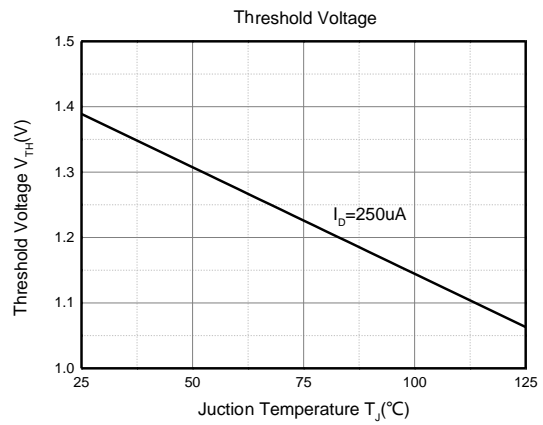
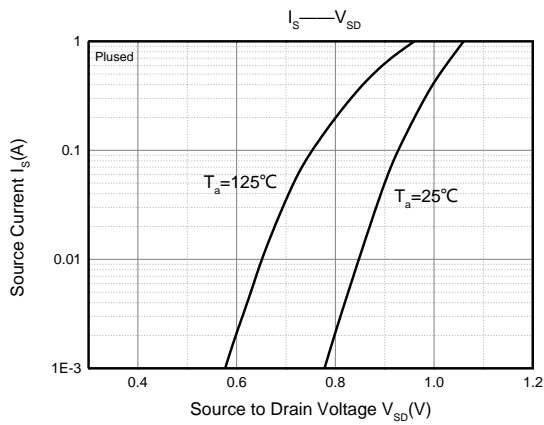
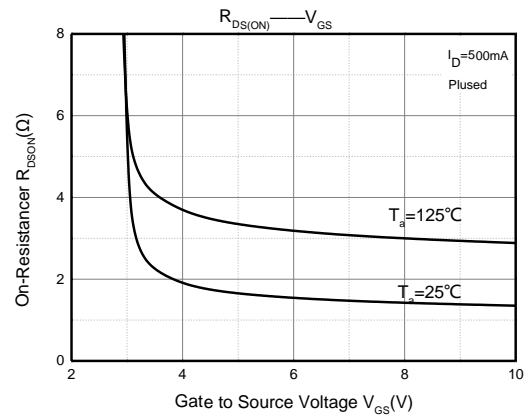
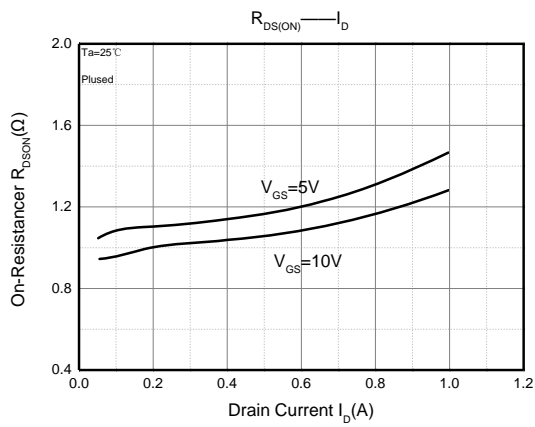
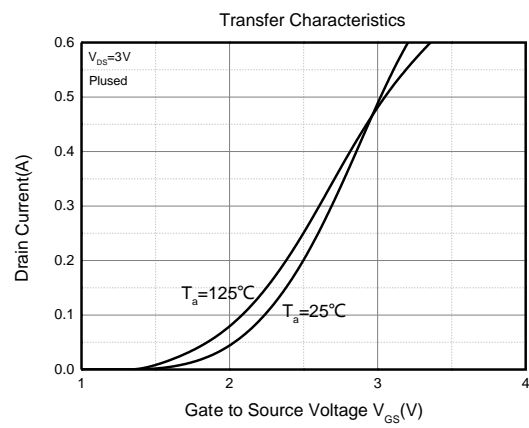
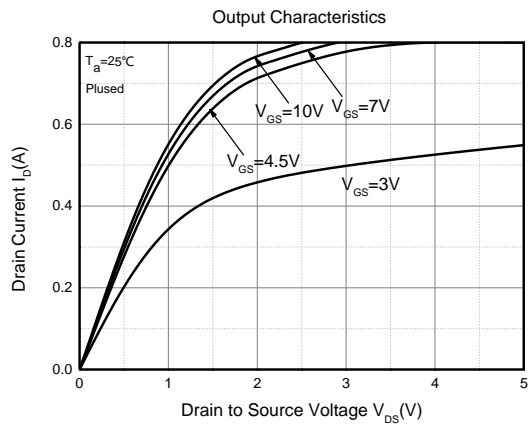
| Parameter | Symbol | Test Condition | Min | Type | Max | Unit |
|---|---------------|--|------------|------|-----------|----------|
| Static Characteristics | | | | | | |
| Drain-source breakdown voltage | $V_{(BR)DSS}$ | $V_{GS} = 0V, I_D = 250\mu A$ | 60 | | | V |
| Zero gate voltage drain current | I_{DSS} | $V_{DS} = 48V, V_{GS} = 0V$ | | | 1 | μA |
| Gate-body leakage current | I_{GSS1} | $V_{GS} = \pm 20V, V_{DS} = 0V$ | | | ± 10 | μA |
| | I_{GSS2} | $V_{GS} = \pm 10V, V_{DS} = 0V$ | | | ± 200 | nA |
| | I_{GSS3} | $V_{GS} = \pm 5V, V_{DS} = 0V$ | | | ± 100 | nA |
| Gate threshold voltage* | $V_{GS(th)}$ | $V_{DS} = V_{GS}, I_D = 250\mu A$ | 1 | 1.6 | 2.5 | V |
| Drain-source on-resistance* | $R_{DS(on)}$ | $V_{GS} = 10V, I_D = 500mA$ | | 0.9 | 2.5 | Ω |
| | | $V_{GS} = 4.5V, I_D = 200mA$ | | 1.1 | 3 | |
| Recovered charge | Q_r | $V_{GS} = 0V, I_S = 300mA, V_R = 25V, dI_S/dt = -100A/\mu S$ | | 30 | | nC |
| Dynamic characteristics** | | | | | | |
| Input Capacitance | C_{iss} | $V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$ | | | 40 | pF |
| Output Capacitance | C_{oss} | | | | 30 | |
| Reverse Transfer Capacitance | C_{rss} | | | | 10 | |
| Switching Characteristics** | | | | | | |
| Turn-on delay time | $t_{d(on)}$ | $V_{GS} = 10V, V_{DD} = 50V, R_G = 50\Omega$ | | | 10 | ns |
| Turn-off delay time | $t_{d(off)}$ | $R_G = 50\Omega, R_L = 250\Omega$ | | | 15 | |
| Reverse recovery Time | t_{rr} | $V_{GS} = 0V, I_S = 300mA, V_R = 25V, dI_S/dt = -100A/\mu S$ | | 30 | | |
| Source-Drain Diode characteristics | | | | | | |
| Diode Forward voltage | V_{SD} | $V_{GS} = 0V, I_S = 300mA$ | | | 1.5 | V |
| GATE-SOURCE ZENER DIODE | | | | | | |
| Gate-Source Breakdown Voltage | BV_{GSO} | $I_{GS} = \pm 1mA(\text{Open Drain})$ | ± 21.5 | | ± 30 | V |

Notes:

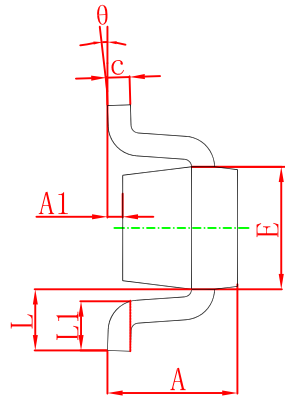
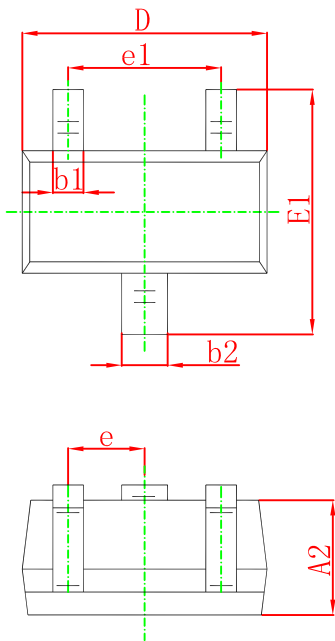
*Pulse Test: Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$.

**These parameters have no way to verify.

Typical Characteristics



SOT-523 Package Information



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|----------|---------------------------|-------|----------------------|-------|
| | Min. | Max. | Min. | Max. |
| A | 0.700 | 0.900 | 0.028 | 0.035 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.700 | 0.800 | 0.028 | 0.031 |
| b1 | 0.150 | 0.250 | 0.006 | 0.010 |
| b2 | 0.250 | 0.350 | 0.010 | 0.014 |
| c | 0.100 | 0.200 | 0.004 | 0.008 |
| D | 1.500 | 1.700 | 0.059 | 0.067 |
| E | 0.700 | 0.900 | 0.028 | 0.035 |
| E1 | 1.450 | 1.750 | 0.057 | 0.069 |
| e | 0.500 TYP. | | 0.020 TYP. | |
| e1 | 0.900 | 1.100 | 0.035 | 0.043 |
| L | 0.400 REF. | | 0.016 REF. | |
| L1 | 0.260 | 0.460 | 0.010 | 0.018 |
| θ | 0° | 8° | 0° | 8° |

单击下面可查看定价，库存，交付和生命周期等信息

[>>GP\(格瑞宝\)](#)