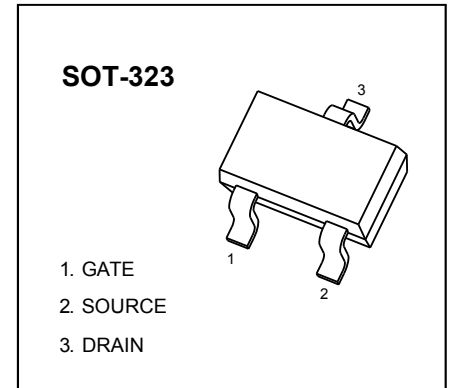


Plastic-Encapsulate MOSFETS

FEATURES

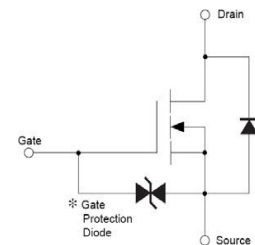
- ◆ Low on-resistance
- ◆ Fast switching speed
- ◆ Low voltage drive makes this device ideal for portable equipment
- ◆ Easily designed drive circuits
- ◆ Easy to parallel



MAXIMUM RATINGS (T_a = 25°C unless otherwise noted)

| Symbol | Parameter | Value | Units |
|------------------|---|---------|-------|
| V _{DS} | Drain-Source voltage | 30 | V |
| V _{GSS} | Gate-Source Voltage | ±20 | V |
| I _D | Continuous Drain Current | 0.1 | A |
| P _D | Power Dissipation | 0.2 | W |
| T _J | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55-150 | °C |
| R _{θJA} | Thermal Resistance from Junction to Ambient | 625 | °C /W |

Equivalent circuit

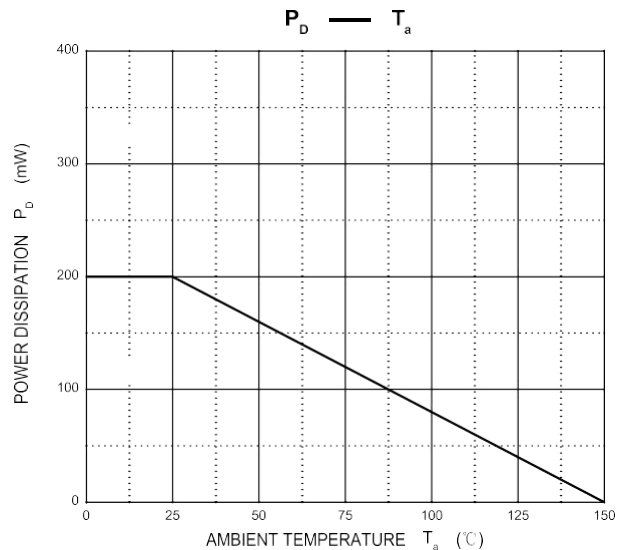
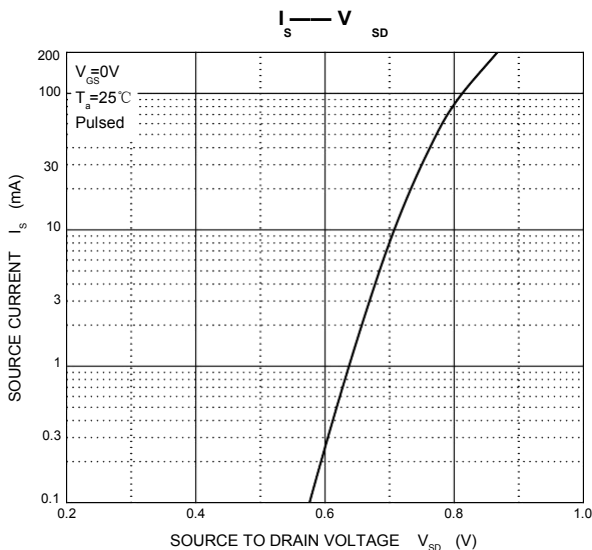
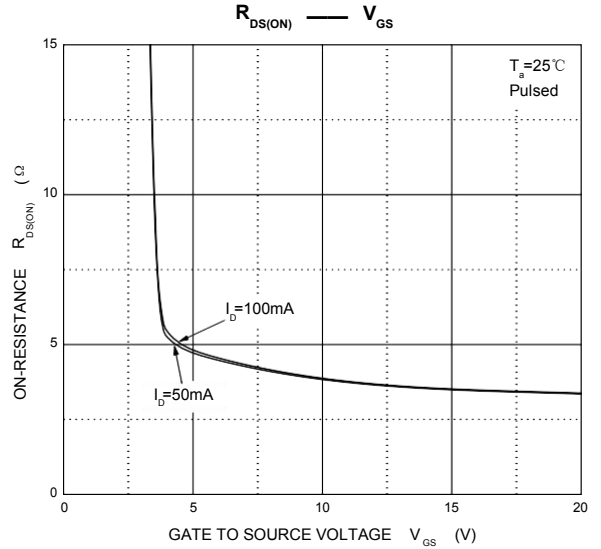
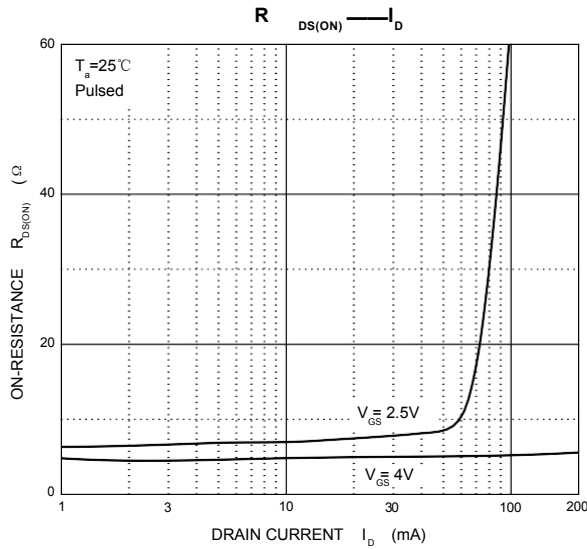
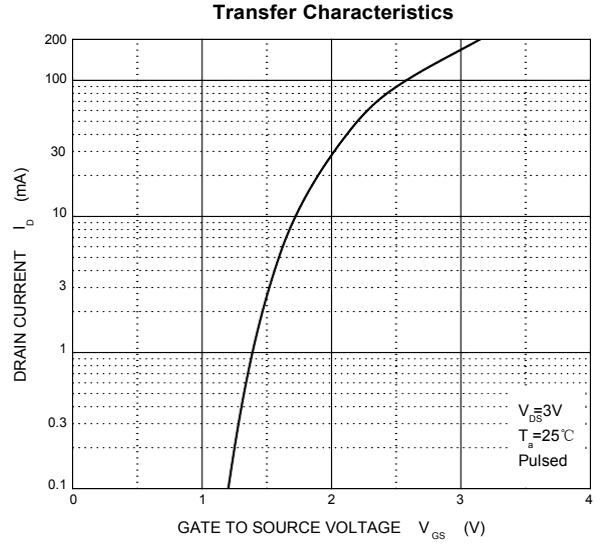
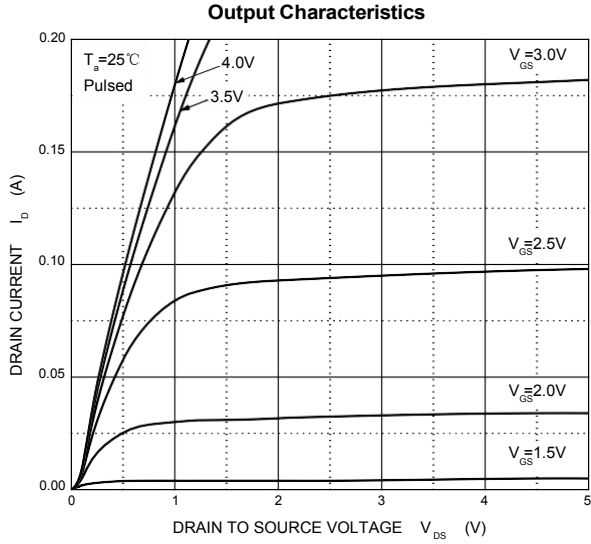


ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise noted)

| Parameter | Symbol | Test Condition | Min | Typ | Max | Units |
|-----------------------------------|----------------------|---|-----|-----|-----|-------|
| Off Characteristics | | | | | | |
| Drain-Source Breakdown Voltage | V _{(BR)DSS} | V _{GS} = 0V, I _D = 10μA | 30 | | | V |
| Zero Gate Voltage Drain Current | I _{DSS} | V _{DS} = 30V, V _{GS} = 0V | | | 0.2 | μA |
| Gate -Source leakage current | I _{GSS} | V _{GS} = ±20V, V _{DS} = 0V | | | ±10 | uA |
| Gate Threshold Voltage | V _{GS(th)} | V _{DS} = 3V, I _D = 100μA | 0.8 | | 1.5 | V |
| Drain-Source On-Resistance | R _{DS(on)} | V _{GS} = 4V, I _D = 10mA | | | 8 | Ω |
| | | V _{GS} = 2.5V, I _D = 1mA | | | 13 | Ω |
| Forward Transconductance | g _{FS} | V _{DS} = 3V, I _D = 10mA | 20 | | | mS |
| Dynamic Characteristics* | | | | | | |
| Input Capacitance | C _{iss} | V _{DS} = 5V, V _{GS} = 0V, f = 1MHz | | 13 | | pF |
| Output Capacitance | C _{oss} | | | | 9 | pF |
| Reverse Transfer Capacitance | C _{rss} | | | | 4 | pF |
| Switching Characteristics* | | | | | | |
| Turn-On Delay Time | t _{d(on)} | V _{GS} = 5V, V _{DD} = 5V, I _D = 10mA, R _g = 10Ω, R _L = 500Ω | | 15 | | ns |
| Rise Time | t _r | | | 35 | | ns |
| Turn-Off Delay Time | t _{d(off)} | | | 80 | | ns |
| Fall Time | t _f | | | 80 | | ns |

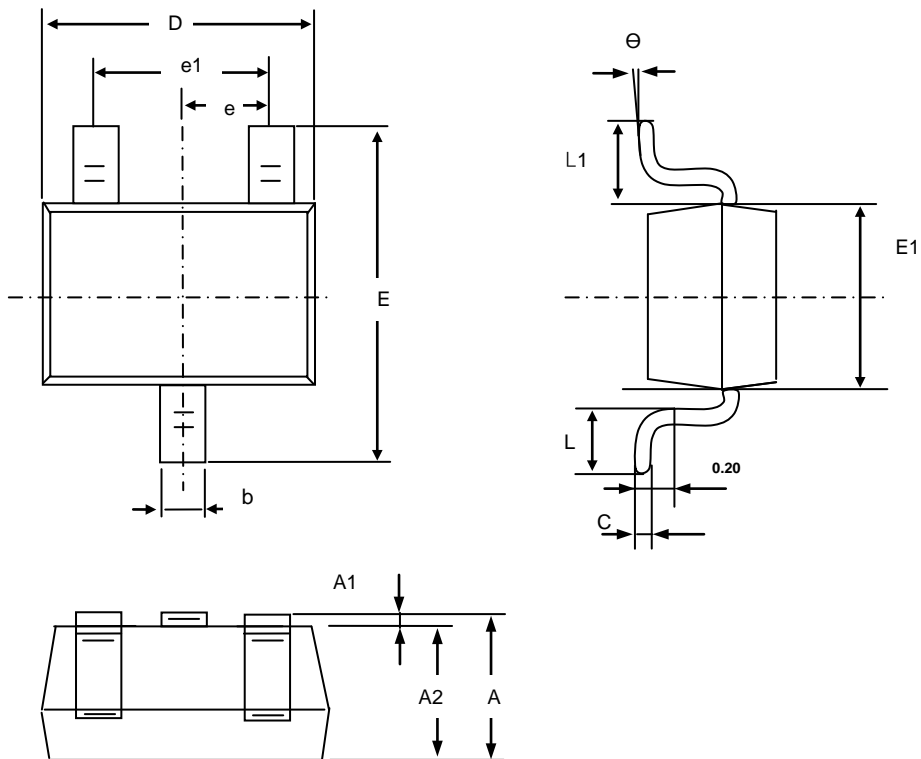
*These parameters have no way to verify

TYPICAL CHARACTERISTICS



PACKAGE OUTLINE

SOT-323



| Symbol | Dim in mm | | |
|----------|-----------|------|------|
| | Min | Nor | Max |
| A | 0.90 | 1.00 | 1.10 |
| A1 | 0.00 | 0.05 | 0.10 |
| A2 | 0.90 | 0.95 | 1.00 |
| b | 0.20 | 0.30 | 0.40 |
| c | 0.08 | 0.12 | 0.15 |
| D | 2.00 | 2.10 | 2.20 |
| E | 2.15 | 2.30 | 2.45 |
| E1 | 1.15 | 1.25 | 1.35 |
| e | 0.650TPY. | | |
| e1 | 1.2 | 1.3 | 1.4 |
| L | 0.26 | 0.36 | 0.46 |
| L1 | 0.525REF. | | |
| θ | 0° | 4° | 8° |

单击下面可查看定价，库存，交付和生命周期等信息

[>>TWGMC\(台湾迪嘉\)](#)