

2SK3019



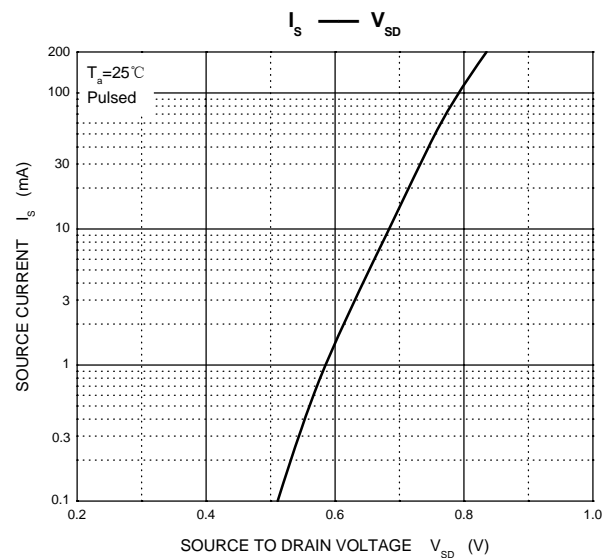
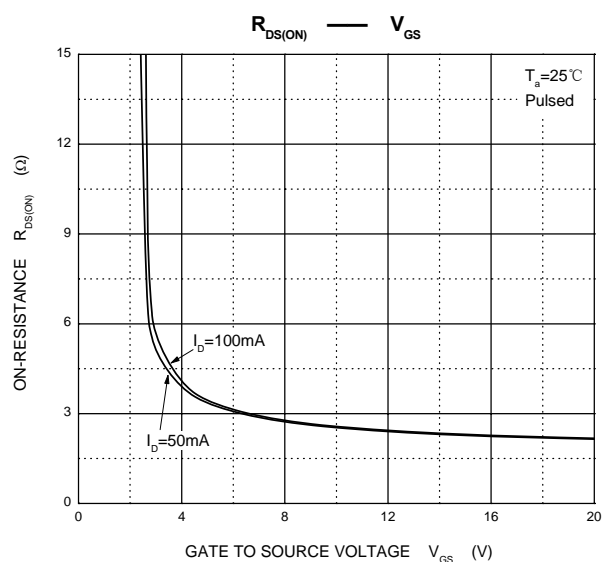
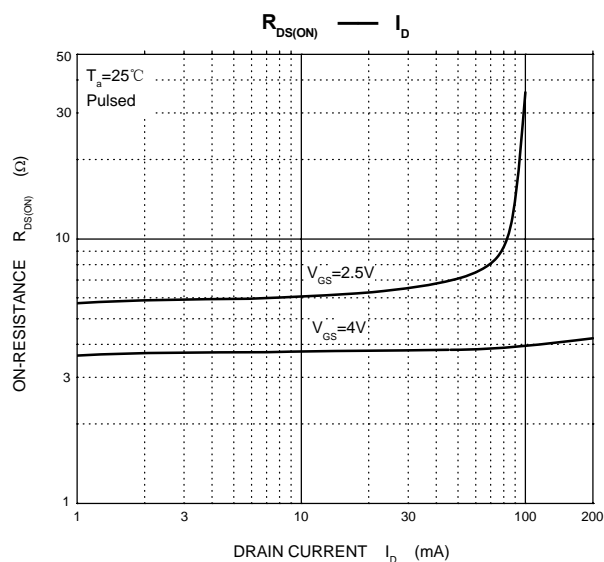
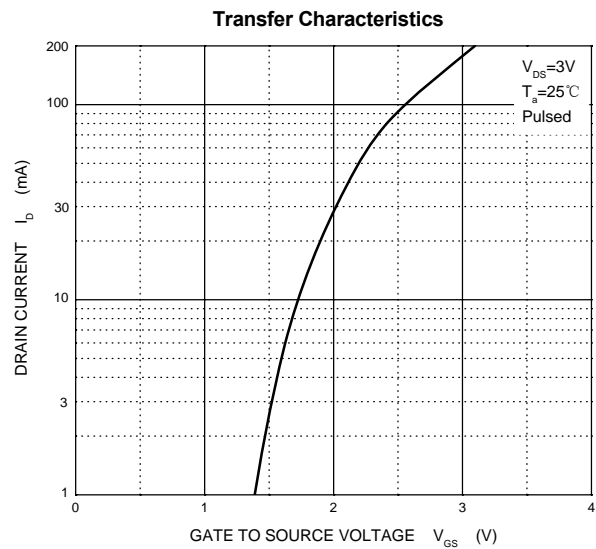
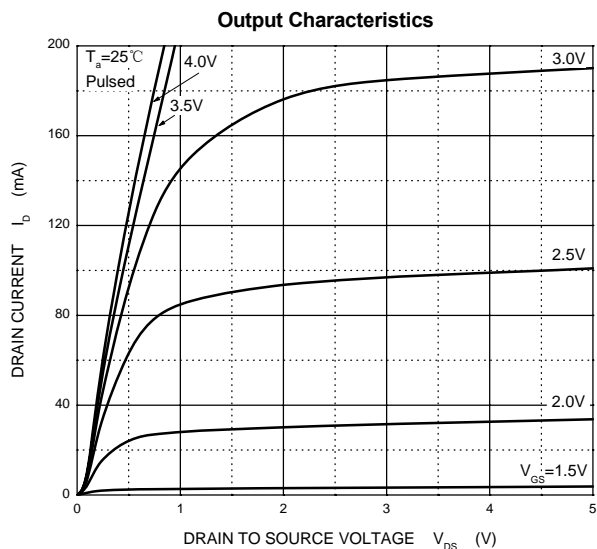
Micro Commercial Components

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

| Parameter | Symbol | Test Condition | Min | Typ | Max | Units |
|---------------------------------|---------------------|---|-----|-----|-----|-------|
| Off Characteristics | | | | | | |
| Drain-Source Breakdown Voltage | V _{DS} | V _{GS} = 0V, I _D = 10μA | 30 | | | V |
| Zero Gate Voltage Drain Current | I _{DSS} | V _{DS} =30V,V _{GS} = 0V | | | 1 | μA |
| Gate –Source leakage current | I _{GSS} | V _{GS} =±20V, V _{DS} = 0V | | | ±2 | μA |
| 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.

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Ordering Information :

| Device | Packing |
|------------------|----------------------|
| (Part Number)-TP | Tape&Reel;3Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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