

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

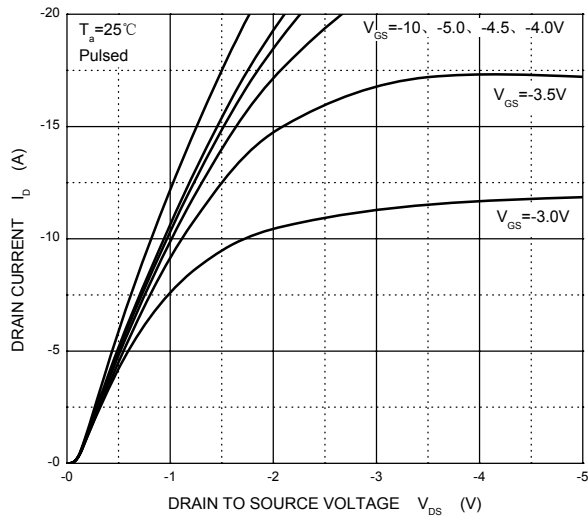
Parameter	Symbol	Test Condition	Min	Typ	Max	Units
Static characteristics						
Drain-source breakdown voltage	BV <sub>DSS</sub>	V <sub>GS</sub> = 0V, I <sub>D</sub> =-250μA	-30			V
Zero gate voltage drain current	I <sub>DSS</sub>	V <sub>DS</sub> =-24V, V <sub>GS</sub> = 0V			-1	μA
Gate-source leakage current	I <sub>GSS</sub>	V <sub>GS</sub> =±20V, V <sub>DS</sub> = 0V			±100	nA
Drain-source on-resistance (note 1)	R <sub>DS(on)</sub>	V <sub>GS</sub> =-10V, I <sub>D</sub> =-4.1A		50	60	mΩ
		V <sub>GS</sub> =-4.5V, I <sub>D</sub> =-3A		68	87	mΩ
Forward tranconductance (note 1)	g <sub>FS</sub>	V <sub>DS</sub> =-5V, I <sub>D</sub> =-4A	5.5			S
Gate threshold voltage	V <sub>GS(th)</sub>	V <sub>DS</sub> =V <sub>GS</sub> , I <sub>D</sub> =-250μA	-1	-1.4	-3	V
Diode forward voltage (note 1)	V <sub>SD</sub>	I <sub>S</sub> =-1A, V <sub>GS</sub> =0V			-1	V
Dynamic characteristics (note 2)						
Input capacitance	C <sub>iss</sub>	V <sub>DS</sub> =-15V, V <sub>GS</sub> =0V, f =1MHz		700		pF
Output capacitance	C <sub>oss</sub>			120		pF
Reverse transfer capacitance	C <sub>rss</sub>			75		pF
Switching Characteristics (note 2)						
Turn-on delay time	t <sub>d(on)</sub>	V <sub>GS</sub> =-10V, V <sub>DS</sub> =-15V, R <sub>L</sub> =3.6Ω, R <sub>GEN</sub> =3Ω		8.6		ns
Turn-on rise time	t <sub>r</sub>			5.0		ns
Turn-off delay time	t <sub>d(off)</sub>			28.2		ns
Turn-off fall time	t <sub>f</sub>			13.5		ns

## Notes:

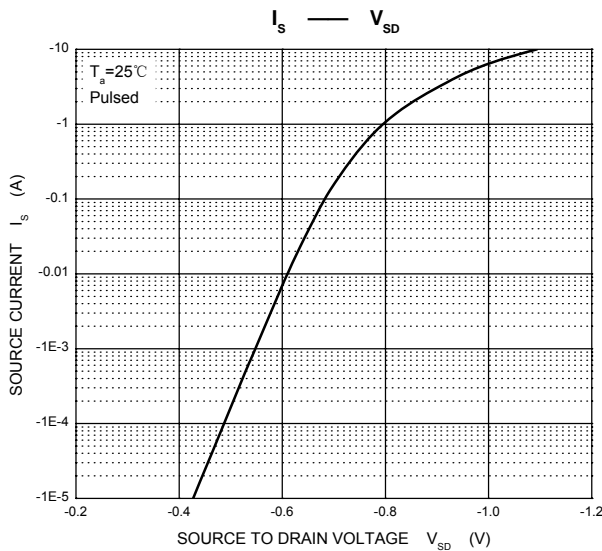
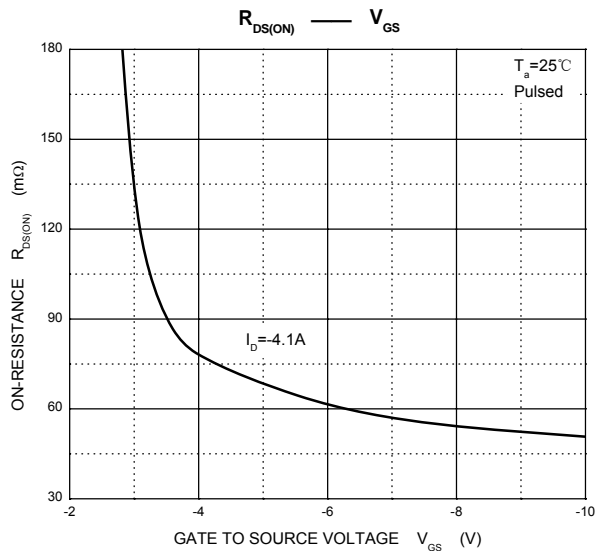
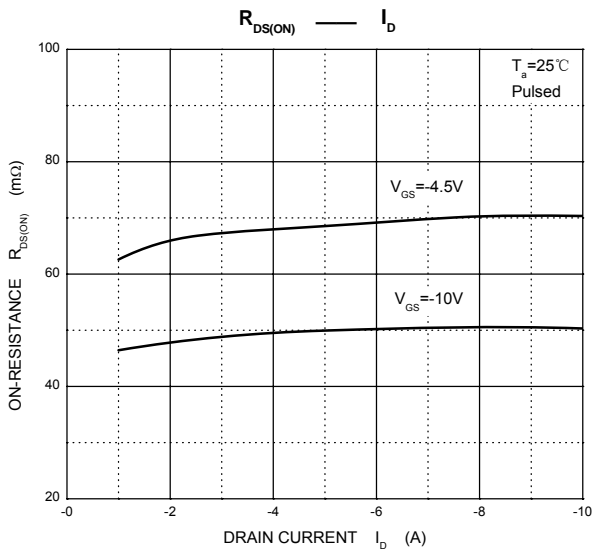
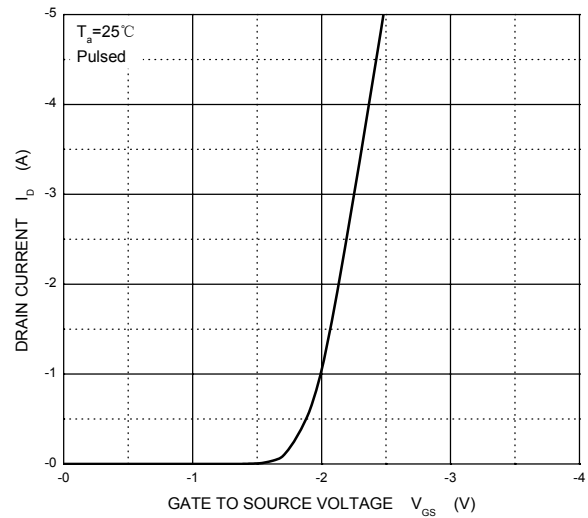
- Pulse test: Pulse width ≤300μs, duty cycle ≤2%.
- These parameters have no way to verify.

## Typical characteristics

Output Characteristics



Transfer Characteristics



## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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