

MOSFET ELECTRICAL CHARACTERISTICS Ta=25 °C unless otherwise specified

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V _{DSS}	I _D =250 μ A, V _{GS} =0V	-30			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V		-1		μ A
		V _{DS} =-24V, V _{GS} =0V, T _J =55°C		-5		
Gate-Body leakage current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} I _D =-250 μ A	-1	-1.9	-3	V
Static Drain-Source On-Resistance	r _{DSON}	V _{GS} =-10V, I _D =-2.6A		97	130	m Ω
		V _{GS} =-10V, I _D =-2.6A T _J =125°C		135	150	
		V _{GS} =-4.5V, I _D =-2A		166	200	
On state drain current	I _{D(ON)}	V _{GS} =-4.5V, V _{DS} =-5V	-5			A
Forward Transconductance	g _{fs}	V _{DS} =-5V, I _D =-5A	3	3.8		S
Input Capacitance	C _{iss}	V _{GS} =0V, V _{DS} =-15V, f=1MHz		302	370	pF
Output Capacitance	C _{oss}			50.3		pF
Reverse Transfer Capacitance	C _{rss}			37.8		pF
Gate resistance	R _g	V _{GS} =0V, V _{DS} =0V, f=1MHz		12	18	Ω
Total Gate Charge (10V)	Q _g	V _{GS} =-4.5V, V _{DS} =-15V, I _D =-2.6A		6.8	9	nC
Total Gate Charge (4.5V)				2.4		nC
Gate Source Charge	Q _{gs}			1.6		nC
Gate Drain Charge	Q _{gd}			0.95		nC
Turn-On DelayTime	t _{D(on)}			7.5		ns
Turn-On Rise Time	t _r	V _{GS} =-10V, V _{DS} =-15V, R _L =5.8 Ω, R _{GEN} =3 Ω		3.2		ns
Turn-Off DelayTime	t _{D(off)}			17		ns
Turn-Off Fall Time	t _f			6.8		ns
Body Diode Reverse Recovery Time	t _{rr}			16.8	22	ns
Body Diode Reverse Recovery Charge	Q _{rr}	I _F =-2.6A, dI/dt=100A/μ s		10		nC
Maximum Body-Diode Continuous Current	I _s				-2	A
Diode Forward Voltage	V _{SD}	I _s =-1A, V _{GS} =0V		-0.82	-1	V

*Repetitive rating, pulse width limited by junction temperature.