

2SJ603

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Drain cut-off current	I _{DSS}	V _{DS} =-60V, V _{GS} =0			-10	μ A
Gate leakage current	I _{GSS}	V _{GS} =±20V, V _{DS} =0			±10	μ A
Gate to source cutoff voltage	V _{GS(off)}	V _{DS} =-10V, I _D =-1mA	-1.5	-2.0	-2.5	V
Forward transfer admittance	Y _{fs}	V _{DS} =-10V, I _D =-13A	10	21		S
Drain to source on-state resistance	R _{DS(on)}	V _{GS} =-10V, I _D =-13A		38	48	mΩ
		V _{GS} =-4.0V, I _D =-13A		53	75	mΩ
Input capacitance	C _{iss}			1900		pF
Output capacitance	C _{oss}	V _{DS} =-10V, V _{GS} =0, f=1MHZ		350		pF
Reverse transfer capacitance	C _{rss}			140		pF
Turn-on delay time	t _{d(on)}			10		ns
Rise time	t _r	V _{GS(on)} =-30V, I _D =-13A, V _{DD} =-10V, R _G =0		11		ns
Turn-off delay time	t _{d(off)}	Ω		66		ns
Fall time	t _f			20		ns
Total Gate Charge	Q _G	I _D = -25A		38		nC
Gate to Source Charge	Q _{GS}	V _{DD} = -48 V		7		nC
Gate to Drain Charge	Q _{GD}	V _{GS} =-10 V		10		nC
Body Diode Forward Voltage	V _{F(S-D)}	I _F = 25A, V _{GS} = 0 V		1.0		V
Reverse Recovery Time	t _{rr}	I _F = 25 A, V _{GS} = 0 V		49		ns
Reverse Recovery Charge	Q _{rr}	di/dt = 100 A / μ s		100		nC