

Symbol	Parameter	Test Conditions		Min	Тур	Max	Units
Off Chara	cteristics						
B _{VDSS}	Drain to Source Breakdown Voltage	I _D = 250μA, V _{GS} = 0V		25			V
ΔB_{VDSS}	Breakdown Voltage Temperature	$I_D = 250 \mu A$, referenced to $25^{\circ}C$			14.3		mV/°C
ΔT_{J}	Coefficient				11.0		
I _{DSS}	Zero Gate Voltage Drain Current	$V_{DS} = 20V,$				1	μA
	Gate to Source Leakage Current	$V_{GS} = 0V$ $V_{GS} = \pm 20V$	T _J = 150°C			250 ±100	nA
I _{GSS}	Gale to Source Leakage Current	V _{GS} - 120V				1100	
On Chara	cteristics						
V _{GS(th)}	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}, I_{D} = 250 \mu A$		1.2	1.7	2.5	V
$\frac{\Delta V_{GS(th)}}{\Delta T_J}$	Gate to Source Threshold Voltage Temperature Coefficient	$I_D = 250\mu A$, referenced to $25^{\circ}C$			-6.5		mV/°C
0		V _{GS} = 10V, I _D = 35A			8.5	11.0	mΩ
r _{DS(on)}	Drain to Source On Resistance	V _{GS} = 4.5V, I _D = 35A			11.0	14.0	
		V _{GS} = 10V, I _D = T _J = 175°C	35A		12.1	18.0	- 11152
Dynamic	Characteristics						
C _{iss}	Input Capacitance	V _{DS} = 13V, V _{GS} = 0V, f = 1MHz f = 1MHz			920	1220	pF
C _{oss}	Output Capacitance				230	310	pF
C _{rss}	Reverse Transfer Capacitance				160	240	pF
Rg	Gate Resistance				1.4		Ω
Switching	Characteristics						
t _{d(on)}	Turn-On Delay Time				7	14	ns
t _r	Rise Time	V _{DD} = 13V, I _D = 35A V _{GS} = 10V, R _{GS} = 9Ω			9	18	ns
t _{d(off)}	Turn-Off Delay Time				22	36	ns
t _f	Fall Time				14	25	ns
Qg	Total Gate Charge	V_{GS} = 0V to 10V			18	25	nC
Qg	Total Gate Charge	$V_{GS} = 0V \text{ to } 10V$ $V_{GS} = 0V \text{ to } 5V$ $V_{DD} = 13V$ $I_D = 35A$ $I_g = 1.0\text{mA}$			9.4	13	nC
Q _{gs}	Gate to Source Gate Charge				3.1		nC
Q _{gd}	Gate to Drain "Miller"Charge				4.0		nC
Drain-Soເ	Irce Diode Characteristics						
V _{SD}	Source to Drain Diode Forward Voltage	V _{GS} = 0V, I _S = 35A			0.96	1.25	V
		$V_{GS} = 0V, I_{S} = 1$			0.86	1.2	V
t _{rr}	Reverse Recovery Time	I _F = 35A, di/dt = 100A/μs			25	38	ns
Q _{rr}	Reverse Recovery Charge	I _F = 35A, di/dt = 100A/μs			17	26	nC



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