



YJS05GP10A

Electrical Characteristics (T_j=25 unless otherwise noted)

Parameter	Symbol	Conditions		Min	Typ	Max	Units
Static Parameter							
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} = 0V, I _D =-250		-100			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-100V,V _{GS} =0V	T _J =25			-1	
			T _J =150			-100	
Gate-Body Leakage Current	I _{GSS}	V _{GS} = ± 20V, V _{DS} =0V				± 100	nA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} = V _{GS} , I _D =-250		-1.0	-1.8	-2.5	V
Static Drain-Source On-Resistance	R _{DS(ON)}	V _{GS} = -10V, I _D =-3A			83	110	m
		V _{GS} = -4.5V, I _D =-2A			95	120	
Diode Forward Voltage	V _{SD}	I _S =-3A,V _{GS} =0V				-1.3	V
Maximum Body-Diode Continuous Current	I _S					-4.5	A
Dynamic Parameters							
Input Capacitance	C _{iss}	V _{DS} =-50V,V _{GS} =0V,f=1MHZ			1051		pF
Output Capacitance	C _{oss}				119		
Reverse Transfer Capacitance	C _{rss}				25		
Switching Parameters							
Total Gate Charge	Q _g (-10V)	V _{GS} =-10V,V _{DS} =-50V,I _D =-5A			20		nC
Total Gate Charge	Q _g (-4.5V)				9.7		
Gate-Source Charge	Q _{gs}				3.9		
Gate-Drain Charge	Q _{gd}				4.3		
Reverse Recovery Chrage	Q _{rr}	I _F =-5A, di/dt=100A/us			140		
Reverse Recovery Time	t _{rr}				80		

ns

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Figure7. Drain current



SOP-8 Package Information

SYMBOL	MIN.		
	0.053	0.069	
B	0.004	0.010	
		0.061	
D		0.020	
E			
F			
G	0.050BSC		1.270BSC
H			
J			
K			



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