

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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Static Characteristics						
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =250μA	30			V
Gate-Threshold Voltage ^(Note 4)	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_{D}=250\mu A$	0.7		1.2	V
Gate-Body Leakage Current	I _{GSS}	V _{GS} =± 12V, V _{DS} =0V			±100	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =24V, V _{GS} =0V			1	μA
Drain-Source On-Resistance ^(Note 4)	R _{DS(on)}	V _{GS} =10V, I _D =5.8A		21	27	mΩ
		V _{GS} =4.5V, I _D =5.0A		25	33	
		V _{GS} =2.5V, I _D =4.0A		33	51	
Forward Transconductance	g FS	V_{DS} =5V, I_{D} =5.0A	8.0			S
Dynamic Characteristics(Note 5)						
Input Capacitance	C _{iss}	V _{DS} =15V,V _{GS} =0V, f=1MHz			1155	pF
Output Capacitance	C _{oss}			108		
Reverse Transfer Capacitance	C _{rss}			84		
Gate Resistance	R_g	Vps =0V,Vgs =0V,f =1MHz			3.6	Ω
Switching Characteristics(Note	5)		•			
Turn-On Delay Time	t _{d(on)}	V_{GS} =10V,R _L =2.7 Ω ,V _{DS} =15V, , R _{GEN} =3 Ω			5	
Turn-On Rise Time	t _r				7	ns
Turn-Off Delay Time	t _{d(off)}				40	
Turn-Off Fall Time	t _f				6	
Drain-Source Diode Character	ristics an	d Maximum Ratings				
Diode Forward voltage ^(Note 4)	V _{SD}	V _{GS} =0V,I _S =1A			1.0	V

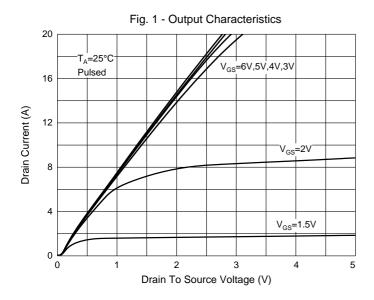
Notes:

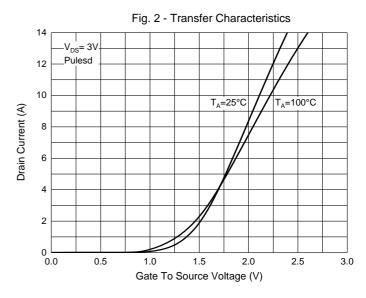
- 2. Repetitive Rating : Pulse width limited by maximum junction temperature. 3. Surface Mounted on FR4 Board, $t < 5 \; \text{sec.}$

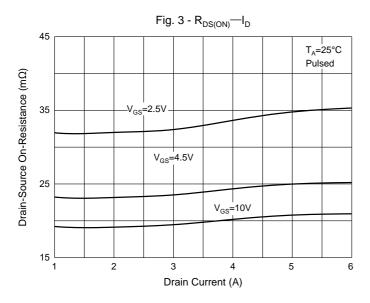
- 4. Pulse Test: Pulse Width≤300μA, Duty Cycle≤2%.5. Guaranteed by Design, Not Subject to Production Testing.

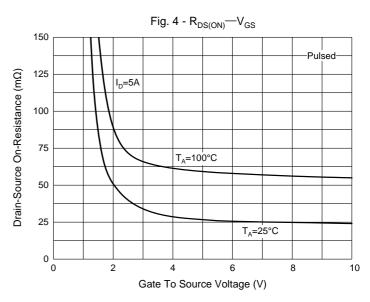


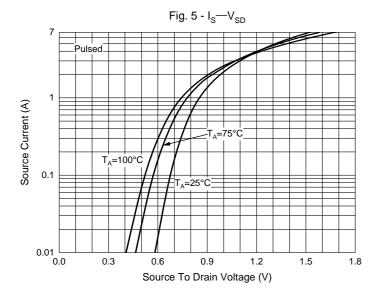
Curve Characteristics

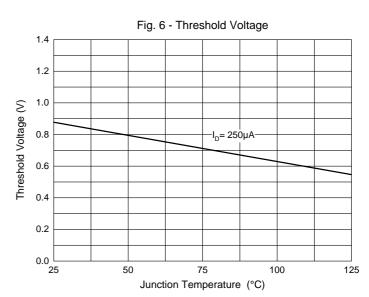














Ordering Information

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

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