

Features

- High Density Cell Design for Low RDS(ON)
- Two MOSFET in a Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

DUAL N-Channel MOSFET

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient(2)

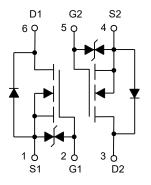
Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	V _{DS}	30	V	
Gate-Source Voltage	V _{GS}	±20	V	
Drain Current	I _D	500	mA	
Pulsed Drain Current ⁽³⁾	I _{DM}	2	Α	
Total Power Dissipation	P _D	150	mW	

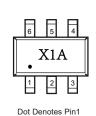
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

- 2. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch
- 3. Pulse Test: Pulse Width \leq 300us, Duty cycle \leq 2%.

	DIMENSIONS							
	DIM	INCHES		MM		NOTE		
		MIN	MAX	MIN	MAX	NOIL		
	Α	0.006	0.011	0.15	0.30			
	В	0.043	0.051	1.10	1.30			
	С	0.059	0.067	1.50	1.70			
	D	0.020		0.50		TYP.		
	G	0.035	0.043	0.90	1.10			
	Н	0.059	0.067	1.50	1.70			
	K	0.022	0.026	0.55	0.65			
	L	0.004	0.011	0.10	0.30			
	М	0.004	0.007	0.10	0.18			

Internal Structure and Marking Code





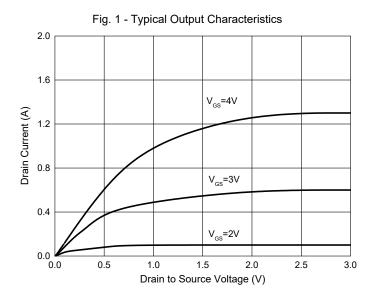


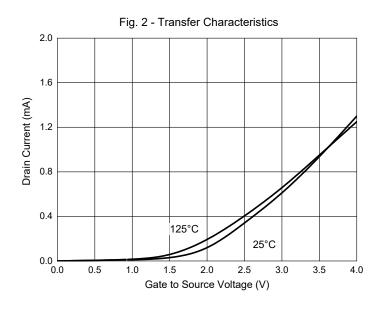
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

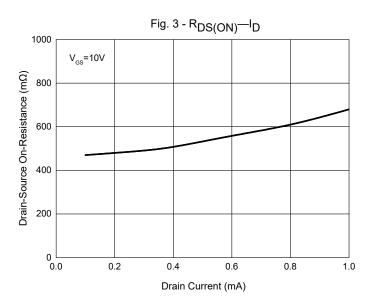
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics					1		
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =10μA	30			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±10	μΑ	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =30V, V _{GS} =0V			1	μΑ	
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_D=250\mu A$	0.7		1.5	V	
Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =10V, I _D =300mA			750	mΩ	
		V _{GS} =4.5V, I _D =200mA			960		
Continuous Body Diode Current	Is				500	mA	
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =250mA			1.2	V	
Reverse Recovery Time	t _{rr}	I _S =500mA,VR=10V,di/dt=60A/μs		8.7		nS	
Dynamic Characteristics ^{(Note 2})						
Input Capacitance	C _{iss}			28		pF	
Output Capacitance	C _{oss}	V _{DS} =15V,V _{GS} =0V,f=1MHz		13			
Reverse Transfer Capacitance	C _{rss}			5.5			
Total Gate Charge	Q_g			1.28			
Gate-Source Charge	Q_{gs}	V_{DS} =15V, V_{GS} =10V, I_{D} =0.5A		0.4		nC	
Gate-Drain Charge	Q_{gd}			0.22			
Turn-On Delay Time	t _{d(on)}			12			
Turn-On Rise Time	t _r	VGS=5V, V _{DD} =5V		30		- nS	
Turn-Off Delay Time	t _{d(off)}	I_D =10mA, R_G =10 Ω , RL=500 Ω		75			
Turn-Off Fall Time	t _f			72			

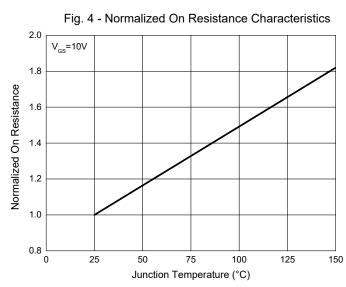


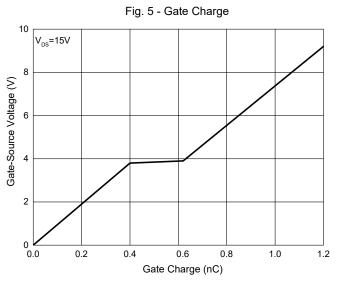
Curve Characteristics

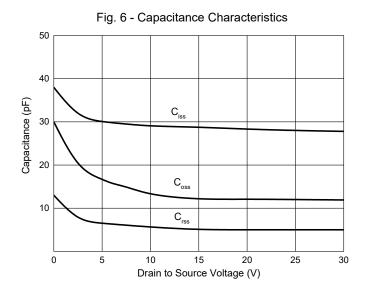






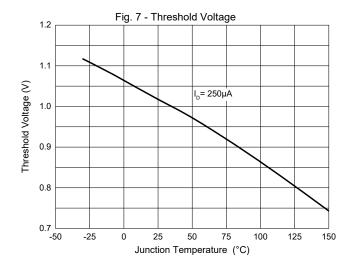


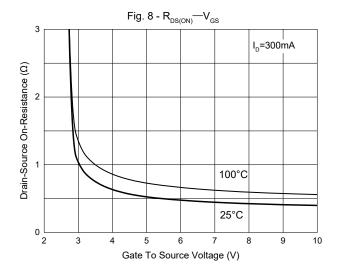






Curve Characteristics







Ordering Information

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

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