

Features

- ESD protected:1500V
- High Dense Cell Design For Extremely Low RDS(ON)
- · 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**

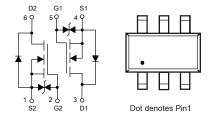
Maximum Ratings

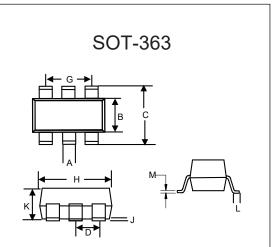
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	V _{DS}	50	V	
Gate-Source Voltage	V _{GS}	±20	V	
Drain Current-Continuous	I _D	0.22	Α	
Power Dissipation	P _D	0.35	W	

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

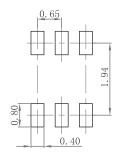
Internal Structure





DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.006	0.014	0.15	0.35		
В	0.045	0.053	1.15	1.35		
С	0.079	0.096	2.00	2.45		
D	0.026		0.65		TYP.	
G	0.047	0.055	1.20	1.40		
Н	0.071	0.087	1.80	2.20		
J		0.004		0.10		
K	0.031	0.043	0.80	1.10		
L	0.010	0.018	0.26	0.46		
М	0.003	0.006	0.08	0.15		

Suggested Solder Pad Layout





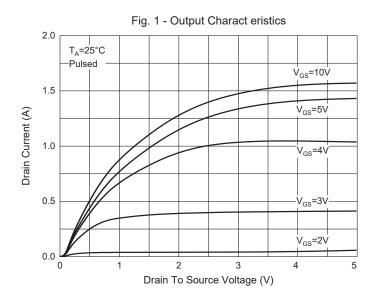
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

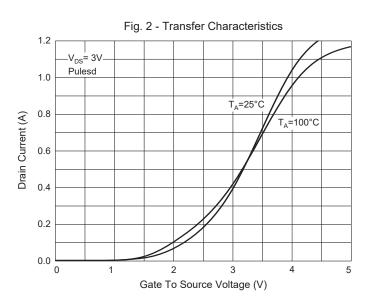
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Static Characteristics							
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =250μA	50			V	
Gate-Threshold Voltage ^(Note2)	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_D=250\mu A$	0.8	1.0	1.45	V	
Gate-Body Leakage Current	I _{GSS}	V _{GS} =± 20V, V _{DS} =0V			±10	μΑ	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =48V, V _{GS} =0V			1.0	μΑ	
Drain-Source On-Resistance ^(Note2)	R _{DS(on)}	V _{GS} =10V, I _D =0.5A		1.9	3	Ω	
		V _{GS} =4.5V, I _D =0.2A		2.4	4	22	
Forward Transconductance ^(Note2)	g _{FS}	V _{DS} =10V, I _D =0.2A	100			mS	
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =0.5A	0.5		1.3	V	
Dynamic Characteristics							
Input Capacitance	C _{iss}			22.8			
Output Capacitance	C _{oss}	V _{DS} =25V,V _{GS} =0V, f=1MHz		3.5		pF	
Reverse Transfer Capacitance	C _{rss}			2.9			
Switching Characteristics	1		<u>'</u>	1			
Turn-On Delay Time ^(Note2)	t _{d(on)}	V_{DD} =30V, V_{GEN} =10V, R_{G} =25 Ω ,		3.8			
Turn-Off Delay Time ^(Note2)	t _{d(off)}	$I_D=0.5A,R_L=60\Omega$		19		ns	

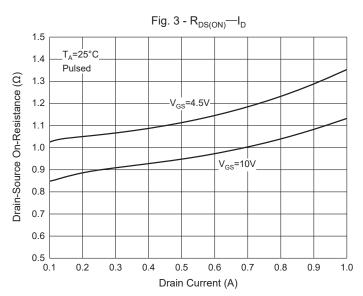
Note: 2.Pulse Test: Pulse Width ≤300µs, Duty Cycle ≤2%.

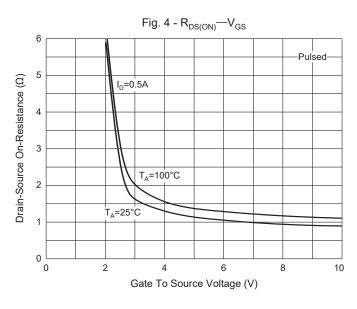


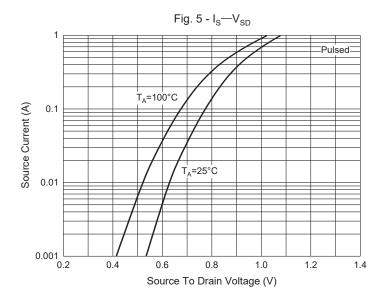
Curve Characteristics

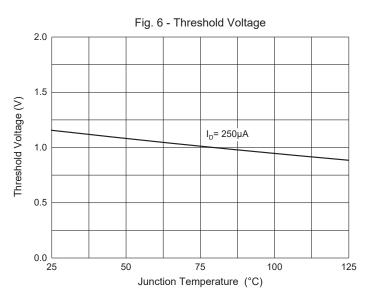














Ordering Information

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

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