

Features

- · Advanced Trench Process Technology
- · Low Threshold Voltage
- · Fast Switching Speed
- 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)

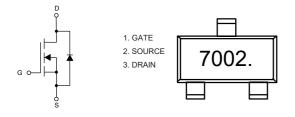
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	60	V
Gate-Source Voltage	V_{GS}	±20	V
Drain Current-Continuous	I _D	0.115	Α
Power Dissipation	P _D	0.2	W

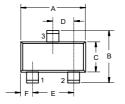
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

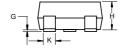
Internal Structure and Marking Code



N-Channel MOSFET



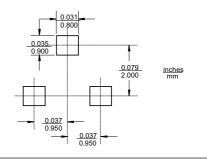






DIMENSIONS						
DIM IN		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		

Suggested Solder Pad Layout



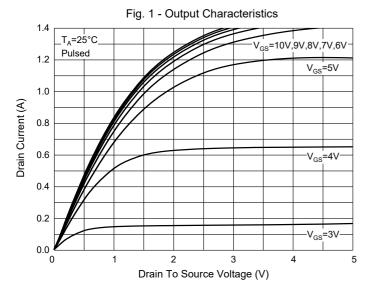


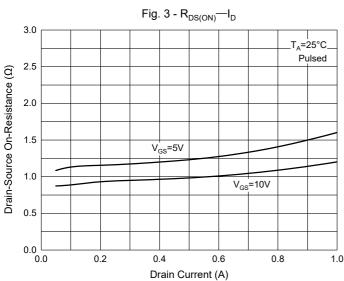
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

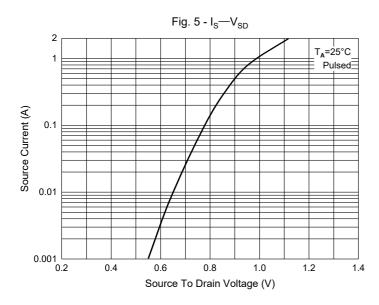
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =10μA	60			V	
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=250\mu A$	1.6		1.8	V	
Gate-Body Leakage	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =60V, V _{GS} =0V			80	nA	
		V _{DS} =60V, V _{GS} =0V,T _J =125 °C			1.0	μA	
On-State Drain Current	I _{D(on)}	V _{DS} =7.5V, V _{GS} =10V	500	2700		mA	
Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =10V, I _D =500mA		1.2	7.5	- Ω	
		V _{GS} =5V, I _D =50mA		1.7	7.5		
Drain-Source On-Voltage	V _{DS(on)}	V _{GS} =10V, I _D =500mA			3.75	V	
		V _{GS} =5V, I _D =50mA			1.5		
Forward Transconductance	g _{fs}	V _{DS} =10V, I _D =200mA	80			ms	
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =115mA			1.5	V	
Maximum Continuous Drain-Source Diode Forward Current	Is				115	mA	
Input Capacitance	C _{iss}				50		
Output Capacitance	C _{oss}	V_{DS} =25V, V_{GS} =0V, f=1MHz			25	pF	
Reverse Transfer Capacitance	C _{rss}				5		
Turn-On Time	t _{d(on)}	V_{DD} =30V, V_{GEN} =10V, R_{L} =150 Ω ,			20	ns	
Turn-Off Time	t _{d(off)}	I_D =200mA, R_{GEN} =25 Ω			20	110	

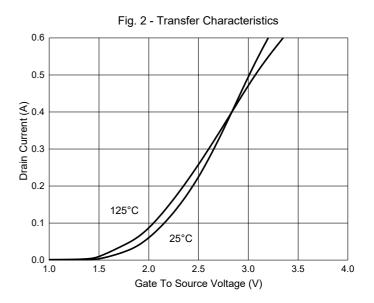


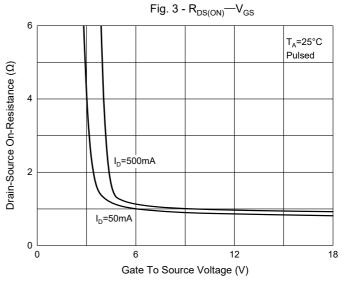
Curve Characteristics













Ordering Information

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

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