

Features

- · Trench Power LV MOSFET Technology
- · High Speed Switching
- Halogen Free. "Green" Device (Note 1)
- . Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

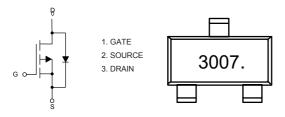
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 65.7°C/W Junction to Ambient (Note2)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V _{GS}	±20	V
Continuous Drain Current	I _D	-7	Α
Pulsed Drain Current (3)	I _{DM}	-50	Α
Total Power Dissipation	P _D	1.9	W

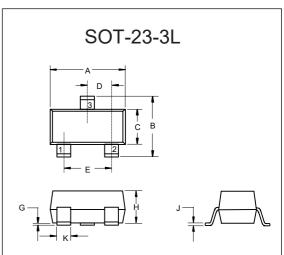
Note:

- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. Surface Mounted on FR4 Board, $t \le 10$ sec.
- 3. Repetitive Rating: Pulse width limited by maximum junction temperature.

Internal Structure and Marking Code

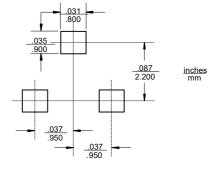


P-CHANNEL MOSFET



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.113	0.117	2.87	2.97	
В	0.108	0.112	2.75	2.85	
С	0.061	0.065	1.55	1.65	
D	0.036	0.038	0.914	0.965	
E	0.073	0.077	1.85	1.95	
G	0.0016	0.0039	0.04	0.100	
Н	0.041	0.045	1.05	1.15	
J	0.006	0.007	0.14	0.17	
K	0.012	0.020	0.30	0.50	





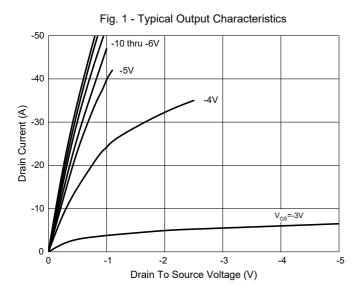


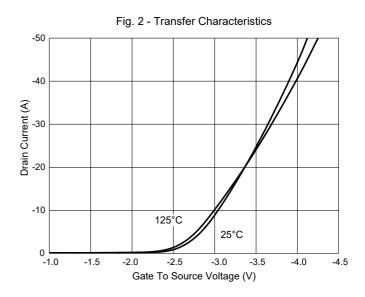
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

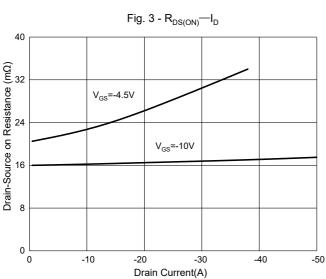
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Static Characteristics					1	I
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-30			V
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-30V, V _{GS} =0V			-1	μA
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250μA	-1	-1.5	-2.5	V
D : 0		V _{GS} =-10V, I _D =-7A		18.5	25	mΩ
Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =-4.5V, I _D =-5A		24.5	36	mΩ
Diode Characteristics			,			1
Continuous Body Diode Current	Is				-7	Α
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =-7A			-1.2	V
Dynamic Characteristics				1	1	I
Input Capacitance	C _{iss}			1500		
Output Capacitance	C _{oss}	V _{DS} =-15V,V _{GS} =0V,f=1MHz		327		pF
Reverse Transfer Capacitance	C _{rss}			276		
Total Gate Charge	Q _g			30		
Gate-Source Charge	Q_{gs}	V _{DS} =-15V,V _{GS} =-10V,I _D =-7A		5.3		nC
Gate-Drain Charge	Q_{gd}			7.6		
Turn-On Delay Time	t _{d(on)}			14		
Turn-On Rise Time	t _r	V _{DS} =-15V, V _{GEN} =-10V,		20		
Turn-Off Delay Time	t _{d(off)}	R_{G} =2.5 Ω , I_{DS} =-4.2 A		95		ns
Turn-Off Fall Time	t _f			65		

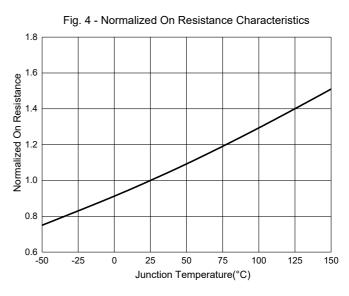


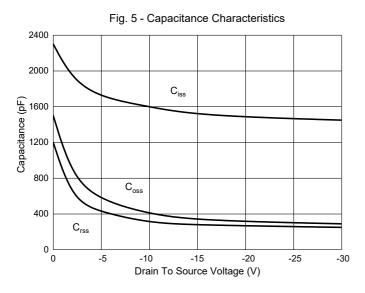
Curve Characteristics

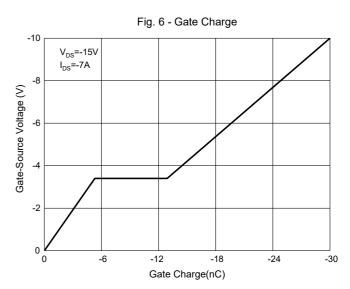














Ordering Information

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

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