

## Features

- 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)

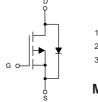
## **Maximum Ratings**

- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 83°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V <sub>DS</sub>	-30	V
Gate-Source Volltage	V <sub>GS</sub>	±20	V
Continuous Drain Current	I <sub>D</sub>	-4.3	А
Total Power Dissipation	P <sub>D</sub>	1.5	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.

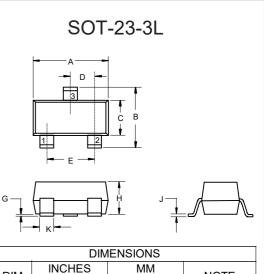
## **Internal Structure**



1. GATE 2. SOURCE 3. DRAIN

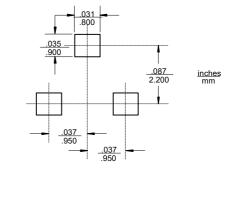
Marking: 3407





	DIMENSIONS				
DIM	INCHES		MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
А	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	0.044	0.049	1.12	1.25	
J	0.006	0.007	0.14	0.17	
K	0.013	0.015	0.34	0.37	

### Suggested Solder Pad Layout



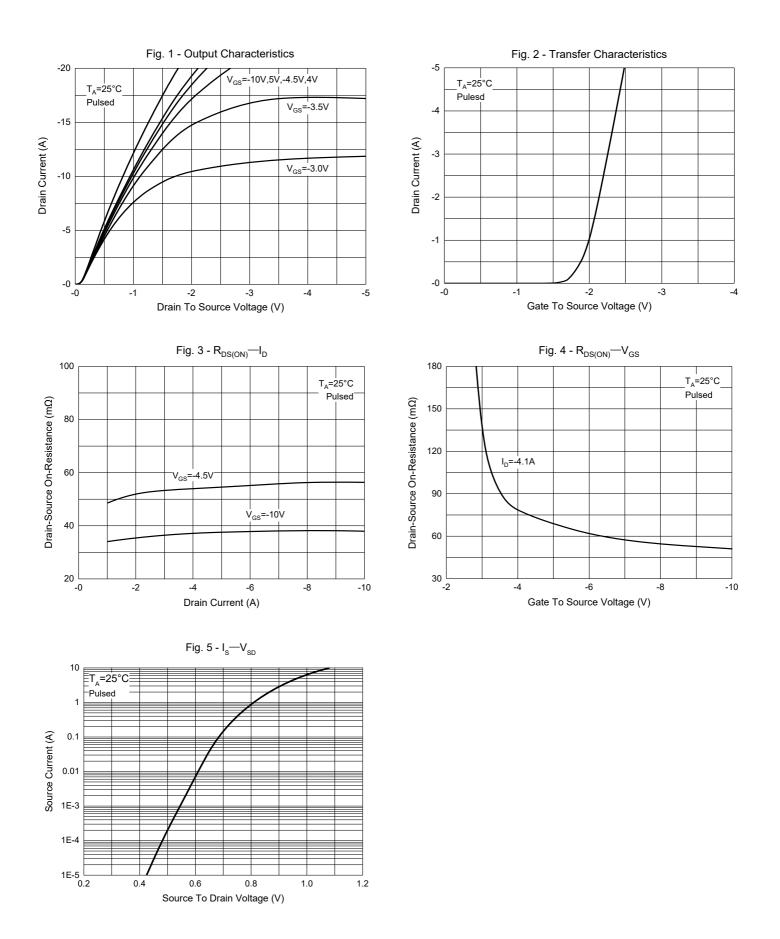


Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics				1	1	1	
Drain-Source Breakdown Voltage	V <sub>(BR)DSS</sub>	V <sub>GS</sub> =0V, I <sub>D</sub> =-250µA	-30			V	
Gate-Source Leakage Current	I <sub>GSS</sub>	V <sub>DS</sub> =0V, V <sub>GS</sub> =±20V			±100	nA	
Zero Gate Voltage Drain Current	I <sub>DSS</sub>	V <sub>DS</sub> =-24V, V <sub>GS</sub> =0V			-1	μA	
Gate-Threshold Voltage <sup>(Note 2)</sup>	V <sub>GS(th)</sub>	$V_{DS}=V_{GS}$ , $I_{D}=-250\mu A$	-1	-1.4	-3	V	
Drain-Source On-Resistance <sup>(Note 2)</sup>	R <sub>DS(on)</sub>	V <sub>GS</sub> =-10V, I <sub>D</sub> =-4.1A		36	49	0	
		V <sub>GS</sub> =-4.5V, I <sub>D</sub> =-3A		52	65	mΩ	
Diode Forward Voltage (Note 2)	V <sub>SD</sub>	V <sub>GS</sub> =0V, I <sub>S</sub> =-1A			-1	V	
Forward Tranconductance <sup>(Note 2)</sup>	<b>g</b> <sub>FS</sub>	V <sub>DS</sub> =-5V, I <sub>D</sub> =-4A	5.5			S	
Dynamic Characteristics <sup>(Note 3)</sup>							
Input Capacitance	C <sub>iss</sub>			700			
Output Capacitance	C <sub>oss</sub>	V <sub>DS</sub> =-15V,V <sub>GS</sub> =0V,f=1MHz		120		pF	
Reverse Transfer Capacitance	C <sub>rss</sub>			75			
Turn-On Delay Time	t <sub>d(on)</sub>			8.6			
Turn-On Rise Time	t <sub>r</sub>	V <sub>GS</sub> =-10V,V <sub>DS</sub> =-15V,		5			
Turn-Off Delay Time	t <sub>d(off)</sub>	$R_L$ =3.6 $\Omega$ , $R_{GEN}$ =3 $\Omega$		28.2		ns	
Turn-Off Fall Time	t <sub>f</sub>			13.5			

Note 2. Pulse Test : Pulse Width ≤300µs, Duty Cycle ≤2%.
3. 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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