

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)

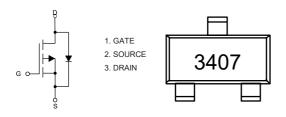
Maximum Ratings

- 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

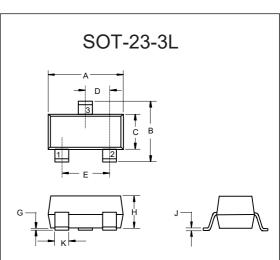
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V _{GS}	±20	V
Continuous Drain Current	I _D	-4.3	Α
Total Power Dissipation	P _D	1.5	W

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 and Marking Code

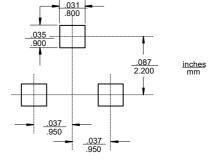


P-CHANNEL MOSFET



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	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

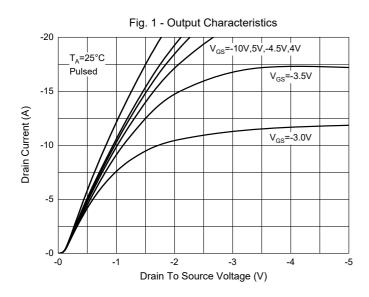
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics							
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-30			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V			-1	μA	
Gate-Threshold Voltage ^(Note 2)	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250μA	-1	-1.4	-3	V	
Drain-Source On-Resistance ^(Note 2)	R _{DS(on)}	V _{GS} =-10V, I _D =-4.1A		36	49		
		V _{GS} =-4.5V, I _D =-3A		52	65	mΩ	
Diode Forward Voltage (Note 2)	V _{SD}	V _{GS} =0V, I _S =-1A			-1	V	
Forward Tranconductance ^(Note 2)	9 _{FS}	V _{DS} =-5V, I _D =-4A	5.5			S	
Dynamic Characteristics(Note 3))						
Input Capacitance	C _{iss}			700			
Output Capacitance	C _{oss}	V _{DS} =-15V,V _{GS} =0V,f=1MHz		120		pF	
Reverse Transfer Capacitance	C _{rss}			75			
Turn-On Delay Time	t _{d(on)}			8.6			
Turn-On Rise Time	t _r	V _{GS} =-10V,V _{DS} =-15V,		5			
Turn-Off Delay Time	t _{d(off)}	$R_L=3.6\Omega, R_{GEN}=3\Omega$		28.2		ns	
Turn-Off Fall Time	t _f			13.5			

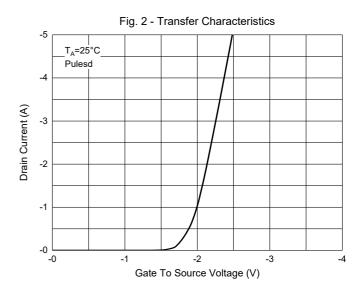
Note 2. Pulse Test : Pulse Width ≤300µs, Duty Cycle ≤2%.

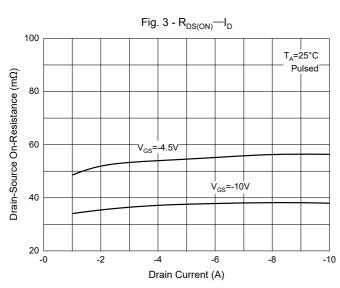
^{3.} Guaranteed by Design, Not Subject to Production Testing.

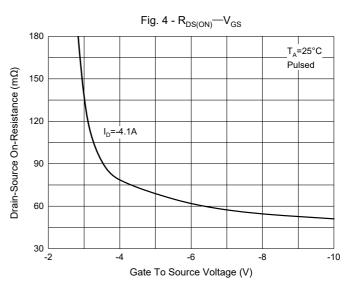


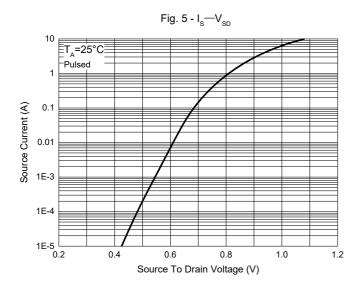
Curve Characteristics













Ordering Information

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

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