

Features

- Excellent R DS(ON) low gate charge, low gate voltages
- 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)

P-Channel MOSFET

Maximum Ratings

Operating Junction Temperature Range: -55°C to +150°C

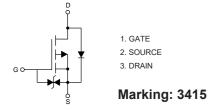
• Storage Temperature: -55°C to +150°C

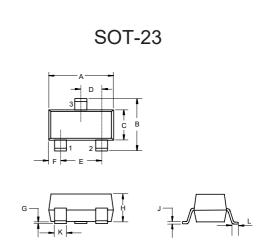
• Thermal Resistance: 357°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-20	V
Gate-Source Voltage	V _{GS}	±8	V
Drain Current-Continuous	I _D	-4.0	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.

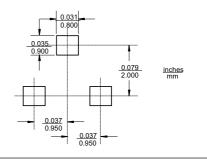
Internal Structure





	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIE	
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		
Е	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)

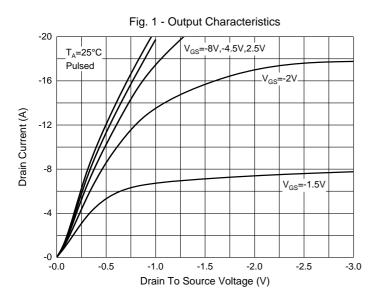
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Static Characteristics							
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-20			V	
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250μA	-0.3		-1.0	V	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-16V, V _{GS} =0V			-1		
Gate-Body Leakage Current	I _{GSS}	V _{GS} =± 8V, V _{DS} =0V			±10	μΑ	
		V _{GS} =± 4.5V, V _{DS} =0V			±1		
		V _{GS} =-4.5V, I _D =-4A			0.050	Ω	
Drain-Source On-Resistance ^(Note 2)	R _{DS(on)}	V _{GS} =-2.5V, I _D =-4A			0.060		
		V _{GS} =-1.8V, I _D =-2A			0.073		
Forward Transconductance ^(Note 3)	g _{FS}	V _{DS} =-5V, I _D =-4A	8			mS	
Diode Forward Voltage ^(Note 3)	V _{SD}	V _{GS} =0V, I _S =-1A			-1	V	
Dynamic Characteristics(Note 4)							
Input Capacitance	C _{iss}			1450		pF	
Output Capacitance	C _{oss}	V _{DS} =-10V,V _{GS} =0V, f=1MHz		205			
Reverse Transfer Capacitance	C _{rss}			160			
Gate resistance	R_g	V _{DS} =0V,V _{GS} =0V, f=1MHz		6.5		Ω	
Switching Characteristics				I	1		
Total Gate Charge	Qg			1.4	2		
Gate-Source Charge	Q_{gs}	V _{DS} =-10V,V _{GS} =-4.5V,I _D =-4A		0.15	0.25	nC	
Gate-Drain Charge	Q_{gd}			0.2	0.4		
Turn-On Delay Time ^(Note 4)	t _{d(on)}			9.5			
Turn-On Rise Time ^(Note 4)	t _r	V_{DD} =-10V, V_{GS} =-4.5V, R_{G} =30 Ω ,		17		no	
Turn-Off Delay Time ^(Note 4)	t _{d(off)}	R _L =2.5Ω		94		ns	
Turn-Off Fall Time ^(Note 4)	t _f			35			

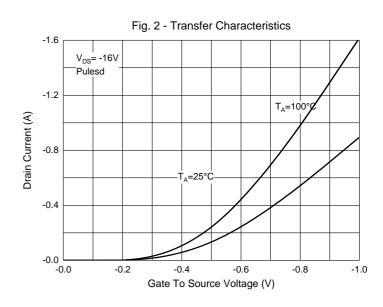
Note:

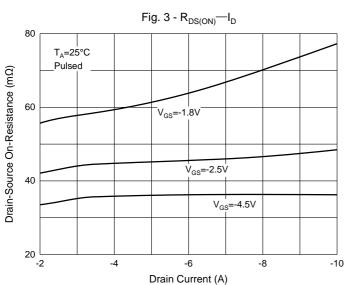
- 2. Repetitive rating, pulse width limited by junction temperature.
- 3. Pulse Test : Pulse width \leq 300 μ s, duty cycle \leq 2%.
- 4. These parameters have no way to verify.

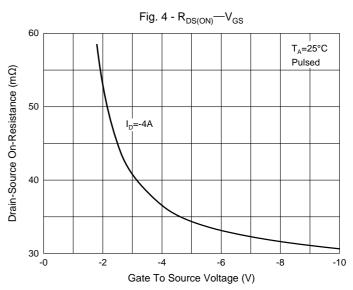


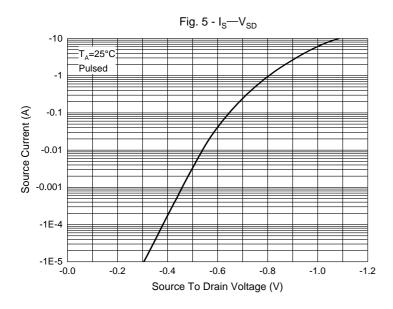
Curve Characteristics

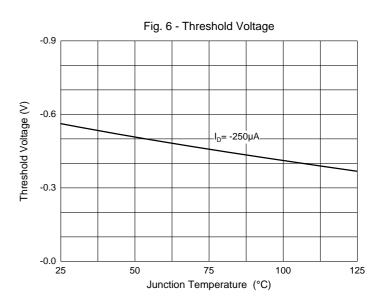














Ordering Information

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

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