

Features

- Halogen Free. "Green" Device (Note1)
- · AEC-Q101 Qualified
- High Density Cell Design for Ultra Low R_{DS(on)}
- Exceptional On-Resistance and Maximum DC Current Capability
- · Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

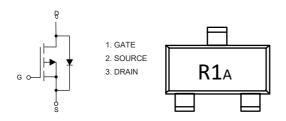
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 104°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V _{GS}	±12	V
Continuous Drain Current	I _D	-4.4	Α
Total Power Dissipation	P _D	1.2	W

Note:

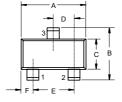
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

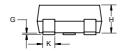
Internal Structure and Marking Code

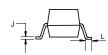


P-CHANNEL MOSFET

SOT-23

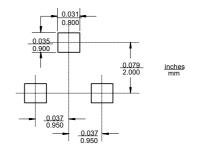






DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012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

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Off Characteristics				1		
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-30			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V			-1	μA
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±12V			±100	nA
On Characteristics ^(Note 2)			•			
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_D=-250\mu A$	-0.7		-1.3	V
Drain-Source On-Resistance		V _{GS} =-10V, I _D =-4.2A		41	60	mΩ
	R _{DS(on)}	V _{GS} =-4.5V, I _D =-4A		47	70	
		V _{GS} =-2.5V, I _D =-1A		61	85	
Forward Tranconductance	g _{FS}	V _{DS} =-5V, I _D =-5A	7			S
Dynamic Characteristics ^{(Note}	3)					
Input Capacitance	C _{iss}			1050		pF
Output Capacitance	C _{oss}	V_{DS} =-15V, V_{GS} =0V,f=1MHz		127		
Reverse Transfer Capacitance	C _{rss}			85		
Switching Characteristics ^{(Not}	e 3)					
Turn-On Delay Time	t _{d(on)}				6.5	
Turn-On Rise Time	t _r	V_{GS} =-10V, V_{DS} =-15V, R_L =3.6 Ω ,			3.5	
Turn-Off Delay Time	t _{d(off)}	R_{GEN} =6 Ω			40	ns
Turn-Off Fall Time	t _f				13	
Drain-Source Diode Characteristics and Maximum Ratings						
Diode Forward Voltage ^(Note 2)	V _{SD}	V _{GS} =0V, I _S =-1A			-1	V

3. Guaranteed by Design, Not Subject to Production Testing.

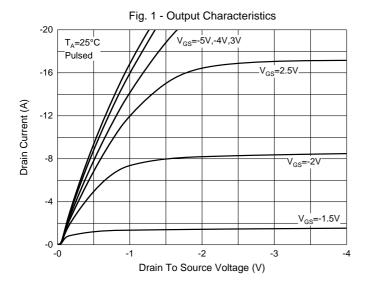
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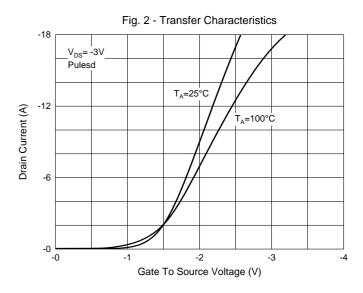
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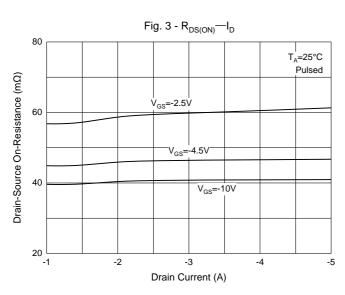
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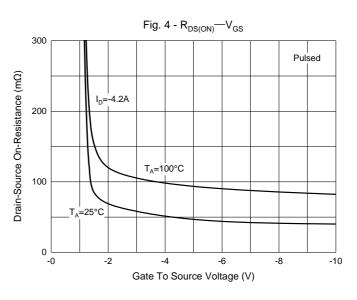


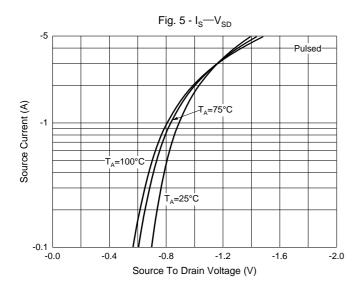
Curve Characteristics

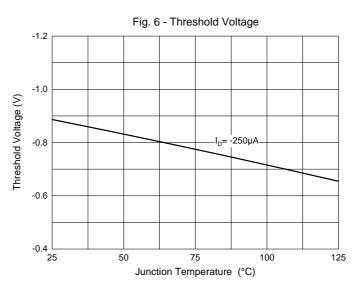














Ordering Information

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

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