

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- · Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

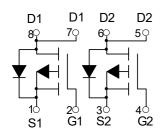
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 50°C/W Junction to Ambient^(Note 2)

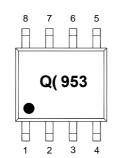
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V _{GS}	±20	V
Continuous Drain Current	I _D	-5.0	Α
Total Power Dissipation	P _D	2.5	W

Note:

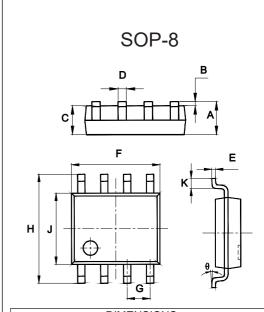
- 1.Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2.The Value of $R_{\theta JA}$ is Measured with the Device Mounted on 1 in² FR-4 Board with 2oz Copper, in a Still Air Environment with T_A =25°C.

Internal Structure and Marking Code



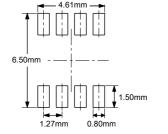


Dual P-Channel Power MOSFET



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.053	0.069	1.35	1.75	
В	0.004	0.010	0.10	0.25	
С	0.053	0.061	1.35	1.55	
D	0.013	0.020	0.33	0.51	
Е	0.007	0.010	0.17	0.25	
F	0.185	0.200	4.70	5.10	
G	0.050		1.270		TYP.
Н	0.228	0.244	5.80	6.20	
J	0.150	0.157	3.80	4.00	
K	0.016	0.050	0.40	1.27	
θ	0°	8°	0°	8°	

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} =-30V, V _{GS} =0V			-1	μA	
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250μA	-1.0	-1.5	-2.5	V	
Drain-Source On-Resistance	Б	V _{GS} =-10V, I _D =-4.9A		50	60	m0	
	$R_{DS(on)}$	V _{GS} =-4.5V, I _D =-3.7A		66	90	- mΩ	
Forward Tranconductance ^(Note 3)	g _{FS}	V _{DS} =-10V, I _D =-4.9A	6			S	
Diode Forward Voltage ^(Note 3)	V _{SD}	V _{GS} =0V, I _S =-1.7A			-1.2	V	
Dynamic Characteristics (Note4)	1						
Turn-On Delay Time	t _{d(on)}				15		
Turn-On Rise Time	t _r	V _{GEN} =-10V, V _{DD} =-15V, ID≈-1A			20	- ns	
Turn-Off Delay Time	t _{d(off)}	$R_G=6\Omega$, $R_L=15\Omega$			80		
Turn-Off Fall Time	t _f				40		
Total Gate Charge	Q _g				25		
Gate-Source Charge	Q_{gs}	V _{GS} =-10V, V _{DS} =-15V I _D =-4.9A		4		nC	
Gate-Drain Charge	Q_{gd}	י עי יי		2			

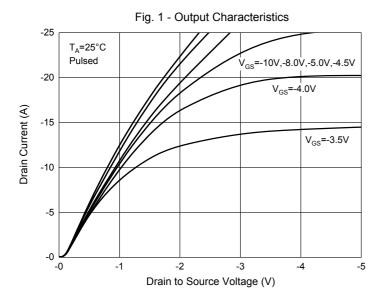
Notes:

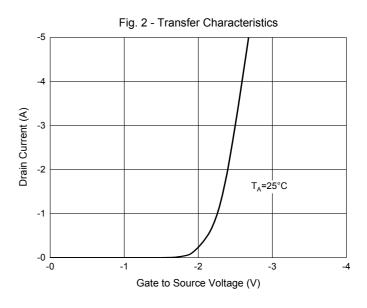
3.Pulse Test : Pulse Width≤300µs, Duty Cycle≤2%.

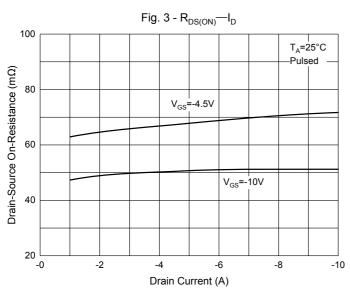
4. Guaranteed by Design, Not Subject to Production Testing.

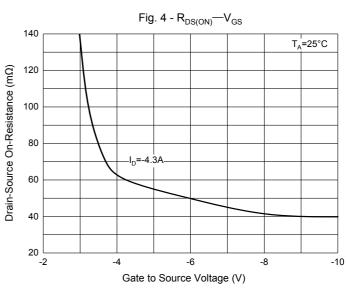


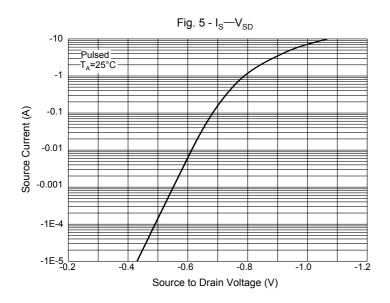
Curve Characteristics

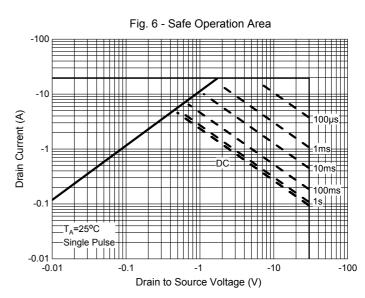














Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 4Kpcs/Reel	

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