

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)

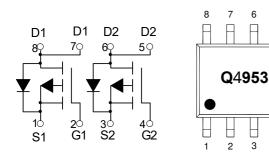
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V _{GS}	±20	V
Continuous Drain Current	I _D	-5.0	Α
Total Power Dissipation	P _D	2.5	W

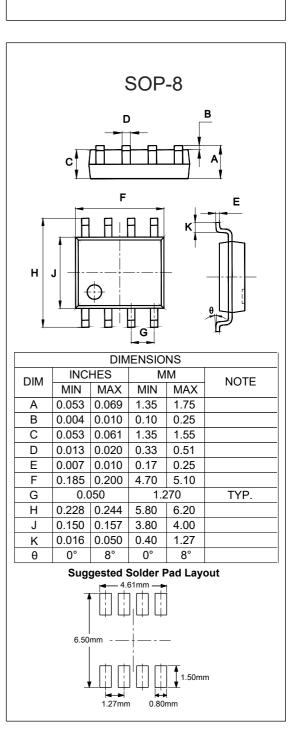
Note:

- 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.

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Internal Structure and Marking Code





Dual

P-Channel

Power MOSFET



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Static Characteristics	4		_		1	
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	D	V _{GS} =-10V, I _D =-4.9A		50	60	- mΩ
	R _{DS(on)}	V _{GS} =-4.5V, I _D =-3.7A		66	90	
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)						
Turn-On Delay Time	t _{d(on)}				15	
Turn-On Rise Time	t _r				20	
Turn-Off Delay Time	t _{d(off)}	R_{G} =6 Ω , R_{L} =15 Ω			80	- ns
Turn-Off Fall Time	t _f				40	
Total Gate Charge	Qg				25	
Gate-Source Charge	Q _{gs}	V _{GS} =-10V, V _{DS} =-15V I _D =-4.9A		4		nC
Gate-Drain Charge	Q _{gd}			2]

Notes :

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

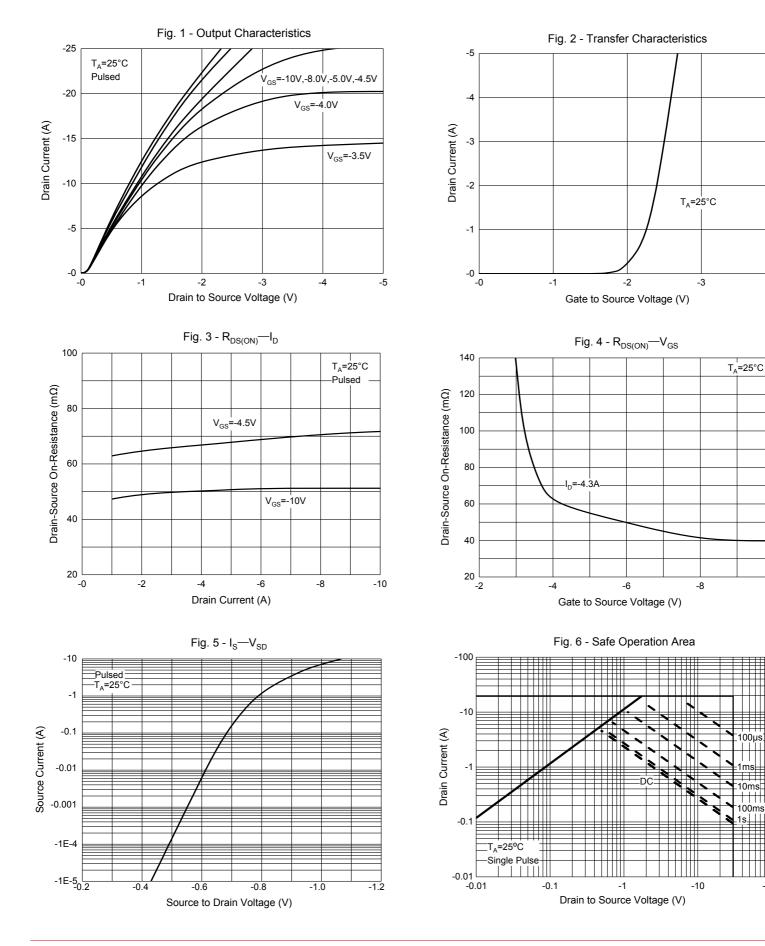
4. Guaranteed by Design, Not Subject to Production Testing.

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Curve Characteristics



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Ordering Information

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

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