

Features

- Split Gate Trench MOSFET Technology
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device(Note 1)
- Moisture Sensitivity Level 3



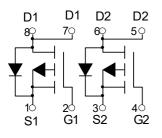
Maximum Ratings

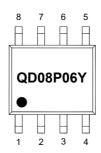
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 72°C/W Junction to Ambient^(Note 2)

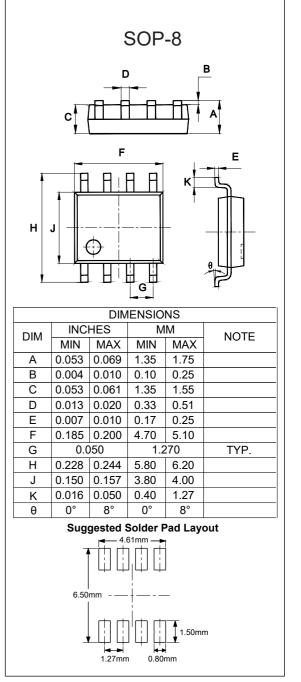
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-60	V
Gate-Source Volltage	V _{GS}	±20	V
Continuous Drain Current	I _D	-8.0	Α
Pulsed Drain Current	I _{DM}	-32	A
Total Power Dissipation	PD	1.7	W

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 RθJA is measured with the device mounted on 1in2 FR-4 board with 2oz.
Copper, in a still air environment with TA=25°C.

Internal Structure and Marking Code









Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Мах	Unit
Static Characteristics			L	1	1	1
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250µA	-60			V
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-60V, V _{GS} =0V			-1	μA
Gate-Threshold Voltage ^(Note 3)	V _{GS(th)}	V _{DS} =V _{GS} , Ι _D =-250μΑ	-1	-1.8	-2.5	V
Drain-Source On-Resistance ^(Note 3)	D	V _{GS} =-10V, I _D =-4.3A		66	85	mΩ
	R _{DS(on)}	V _{GS} =-4.5V, I _D =-3.8A		90	120	
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =-2.8A			-1.2	V
Dynamic Characteristics ^{(Note 4}	·					
Input Capacitance	C _{iss}	V _{DS} =-15V,V _{GS} =0V,f=1MHz		505		pF
Output Capacitance	C _{oss}			133		
Reverse Transfer Capacitance	C _{rss}			23		
Swithing Characteristics						
Total Gate Charge	Qg			4.27		
Gate-Source Charge	Q _{gs}	V _{DD} =-30V,V _{GS} =-4.5V,I _D =-3.1A		2.39		nC
Gate-Drain Charge	Q _{gd}			1.1		
Turn-On Delay Time	t _{d(on)}			11		
Turn-On Rise Time	t _r	V _{DD} =-30V, V _{GEN} =-4.5V,		33.8		
Turn-Off Delay Time	t _{d(off)}	I_D =-2.4A, R_G =1 Ω		12.4		ns
Turn-Off Fall Time	t _f			23.2		

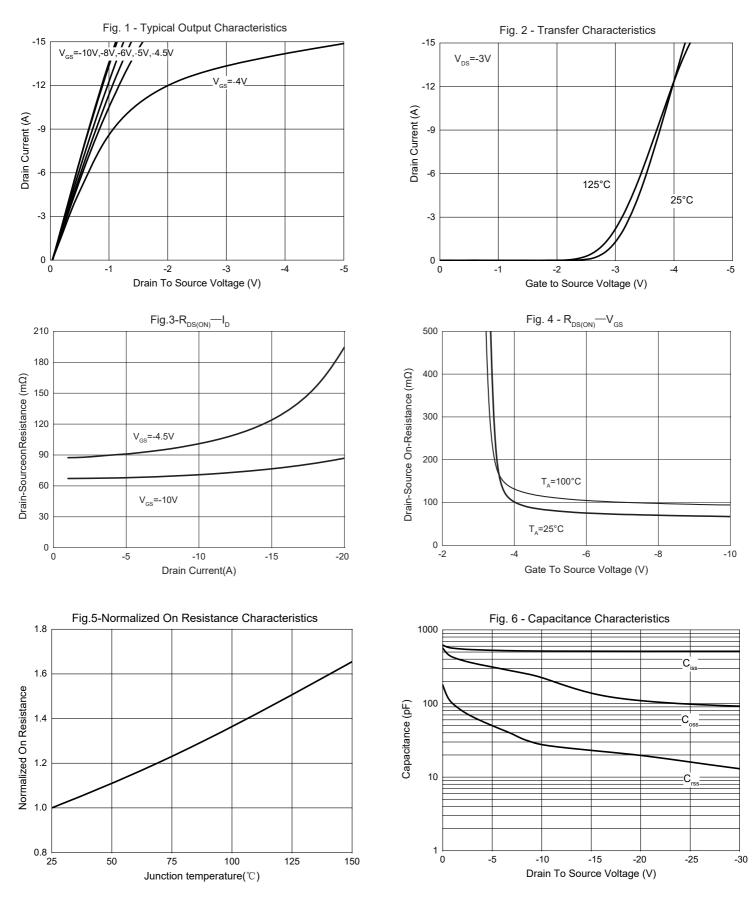
Notes :

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

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

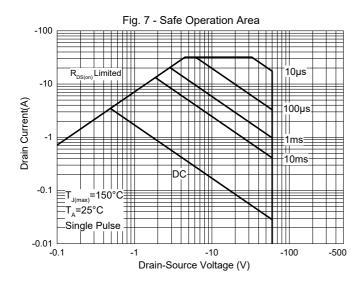


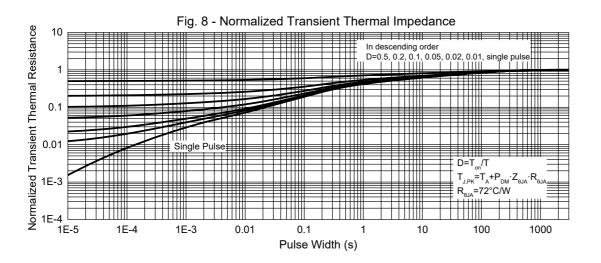
Curve Characteristics





Curve Characteristics







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

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