

Features

- Advanced Trench Cell Design
- Excellent Package for Heat Dissipation
- High Density Cell Design for Low R_{DS(on)}
- 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)

Maximum Ratings

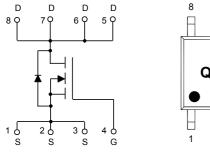
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 62.5°C/W Junction to Ambient (Note 2)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	150	V
Gate-Source Volltage	V _{GS}	±25	V
Continuous Drain Current	I _D	5	Α
Pulsed Drain Current	I _{DM}	15.6	Α
Total Power Dissipation	P _D	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.

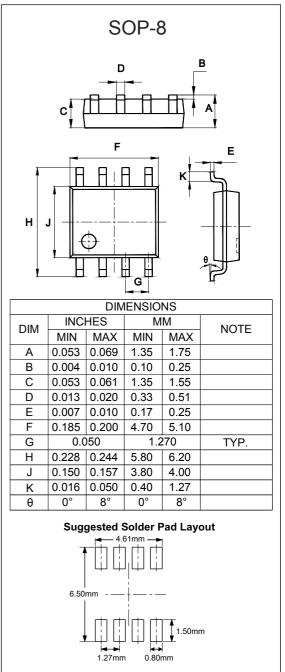
2. Surface Mounted on 1 in² Pad Area, t ≤10 sec.

Internal Structure and Marking Code





N-CHANNEL	
MOSFET	



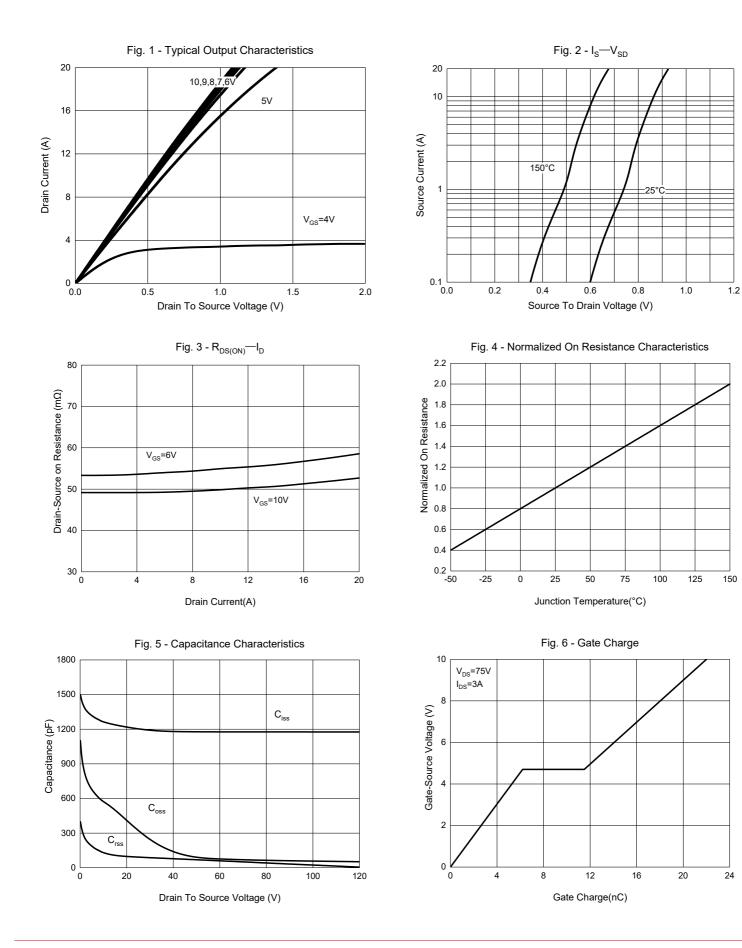


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Static Characteristics			1		1	1
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =250µA	150			V
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±25V			±100	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =120V, V _{GS} =0V			1	1 30 µA
		V _{DS} =120V, V _{GS} =0V, T _J =85°C			30	
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250µA	2		4	V
	D	V _{GS} =10V, I _D =3A		51	63	- mΩ
Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =6V, I _D =2A		53	67	
Diode Characteristics						
Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =3A			1.3	V
Reverse Recovery Time	t _{rr}	I _{DS} =3A, V _{GS} =0V		63		ns
Reverse Recovery Charge	Q _{rr}	dl _{SD} /dt=100A/µs		138		nC
Dynamic Characteristics						
Input Capacitance	C _{iss}			1179		
Output Capacitance	C _{oss}	V _{DS} =75V,V _{GS} =0V,f=1MHz		66		pF
Reverse Transfer Capacitance	C _{rss}			36		
Total Gate Charge	Qg			22		
Gate-Source Charge	Q _{gs}	V _{DS} =75V,V _{GS} =10V,I _D =3A		6.2		nC
Gate-Drain Charge	Q _{gd}			5.3		
Turn-On Delay Time	t _{d(on)}			7.4		
Turn-On Rise Time	t _r	V _{DS} =75V, V _{GEN} =10V, R _G =4.5Ω, R _L =25Ω,		19		ne
Turn-Off Delay Time	t _{d(off)}	N _G -4.302, N _L -2302, I _{DS} =3A		15		ns
Turn-Off Fall Time	t _f			18		

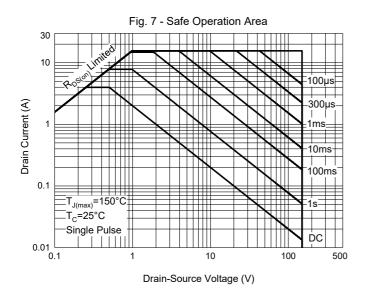


Curve Characteristics





Curve Characteristics





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

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