

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

P-Channel Power MOSFET

Maximum Ratings

Operating Junction Temperature Range : -55°C to +150°C

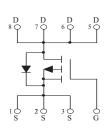
• Storage Temperature Range: -55°C to +150°C

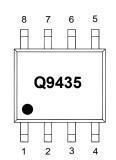
• Thermal Resistance: 89°C/W Junction to Ambient

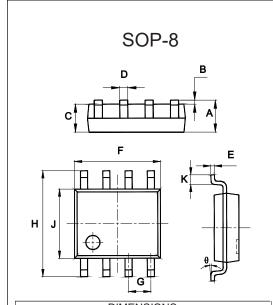
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V_{GS}	±20	V
Drain Current	I _D	-5.1	Α
Pulsed Drain Current	I _{DM}	-20	Α
Single Pulse Avalanche Energy (Note 1)	E _{AS}	20	mJ
Total Power Dissipation	P _D	1.4	W

Note: 1.E_{AS} condition: V_{DD} =-50V,L=0.5mH, R_{G} =25 Ω , Starting T_{J} = 25 $^{\circ}$ C

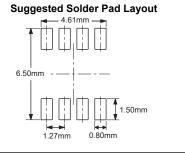
Internal Structure and Marking Code







DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOIL	
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		1.2	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°		





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

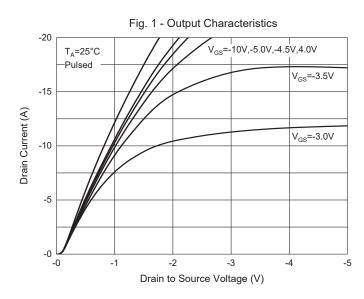
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Static Characteristics	1				1	
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-30			V
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V			-1	μA
Gate-Threshold Voltage ^(Note 2)	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=-250\mu A$	-1.0	-1.5	-2.0	V
-		V _{GS} =-10V, I _D =-4.6A		50	60	mΩ
Drain-Source On-Resistance ^(Note 2)	R _{DS(on)}	V _{GS} =-6V, I _D =-4.1A		60	70	
		V _{GS} =-4.5V, I _D =-2A		65	105	
Forward Tranconductance ^(Note 2)	9 FS	V _{DS} =-15V, I _D =-4.6A	5			S
Dynamic Characteristics ^(Note3)						
Input Capacitance	Ciss			720		
Output Capacitance	Coss	V _{DS} =-15V,V _{GS} =0V f=1MHz		79		pF
Reverse Transfer Capacitance	Crss			65		
Total Gate Charge	Qg	151/11		14.3		nC
Gate-Source Charge	Q_{gs}	V_{DD} =-15V, V_{GS} =-10V I_{D} =-4.6A		3.2		
Gate-Drain Charge	Q_{gd}	, ig man		2		
Turn-On Delay Time	t _{d(on)}			7.5		
Turn-On Rise Time	t _r	V _{DD} =-15V, V _{GS} =-10V		38		ns
Turn-Off Delay Time	t _{d(off)}	$R_G=3\Omega,R_D=15\Omega$		32		
Turn-Off Fall Time	t _f			24		
Gate Resistance	R_g	f=1MHz, V _{DS} =0V, V _{GS} =0V		5.8		Ω
Drain-Source Body Diode Characteristics						
Body Diode Voltage ^(Note 2)	V _{SD}	I _{SD} =-2.6A, V _{GS} =0V			-1.2	V
Continuous Drain-Source Diode Forward Current	I _D				-5.1	Α
Pulsed Drain-Source Diode Forward Current	I _{SM}				-20	Α

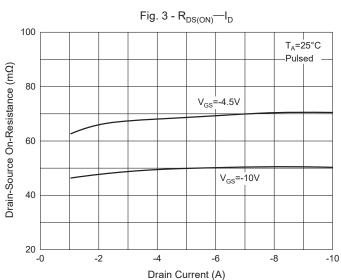
Notes:

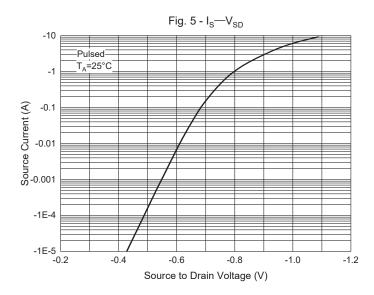
- 2. Pulse Test : Pulse Width≤300µs, Duty Cycle≤2%.
- 3. Guaranteed by Design, Not Subject to Production Testing.

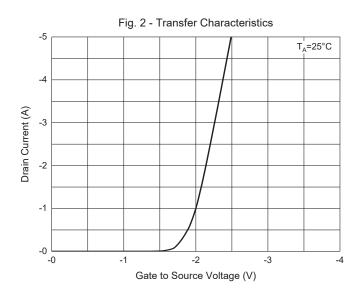


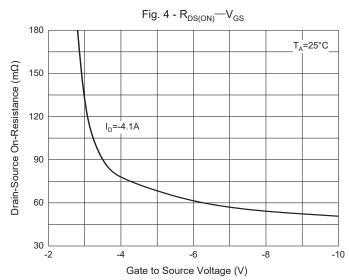
Curve Characteristics













Ordering Information

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

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