

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

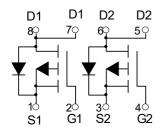
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 89°C/W Junction to Ambient (Note 2)

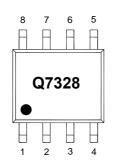
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V _{GS}	±20	V
Drain Current	I _D	-8	Α
Pulsed Drain Current (Note 3)	I _{DM}	-32	Α
Total Power Dissipation (Note 2)	P _D	1.4	W

Note:

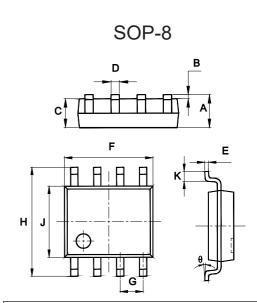
- 1.Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. The Value of $R_{\theta JA}$ is Measured with the Device Mounted on 1 in² FR-4 Board with 2oz. Copper, in a Still Air Environment with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

Internal Structure and Marking Code



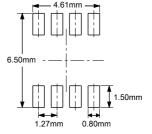


Dual P-Channel MOSFET



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	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		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)

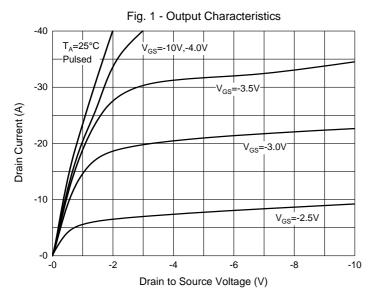
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics	1			1			
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-30			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V			-15	μΑ	
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=-250\mu A$	-1.0	-1.5	-2.5	V	
Drain-Source On-Resistance ^(Note 3)	D	V _{GS} =-10V, I _D =-8A		19	21	mO	
	R _{DS(on)}	V _{GS} =-4.5V, I _D =-6.8A		26	32	- mΩ	
Forward Tranconductance	9 FS	V _{DS} =-10V, I _D =-8A	12			S	
Dynamic Characteristics(Note 4)	1		'				
Input Capacitance	C _{iss}	V _{DS} =-25V,V _{GS} =0V,f=1MHz		2675		pF	
Output Capacitance	C _{oss}			409			
Reverse Transfer Capacitance	C _{rss}			262			
Total Gate Charge	Qg				78		
Gate-Source Charge	Q_{gs}	V_{DD} =-15V, V_{GS} =-10V, I_{D} =-8A		9.8		nC	
Gate-Drain Charge	Q_{gd}			8.3			
Turn-On Delay Time	t _{d(on)}				20		
Turn-On Rise Time	t _r	V_{DD} =-15V, V_{GS} =-10V, I_{D} =-1A R_{G} =6 Ω , R_{D} =15 Ω			23	no	
Turn-Off Delay Time	t _{d(off)}				297	ns	
Turn-Off Fall Time	t _f				147		
Drain-Source Body Diode Cha	racteristi	cs					
Body Diode Voltage ^(Note 3)	V _{SD}	I _{SD} =-2A, V _{GS} =0V			-1.2	V	

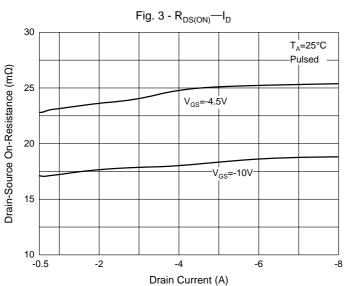
Notes:

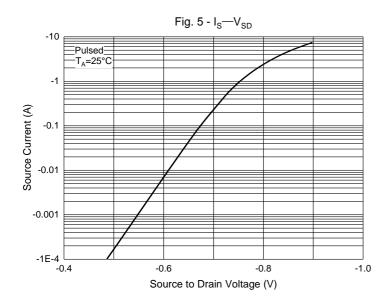
- 3. Pulse Test : Pulse Width≤300µs, Duty Cycle≤2%.
- 4. Guaranteed by Design, Not Subject to Production Testing.

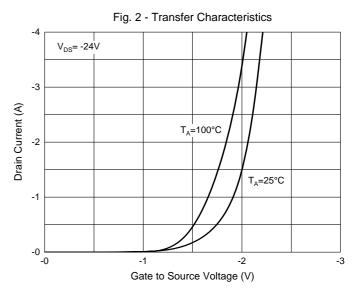


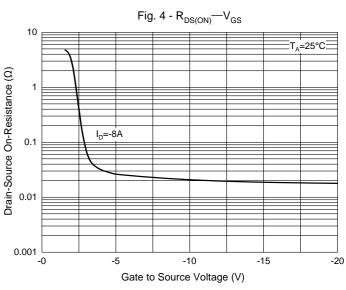
Curve Characteristics

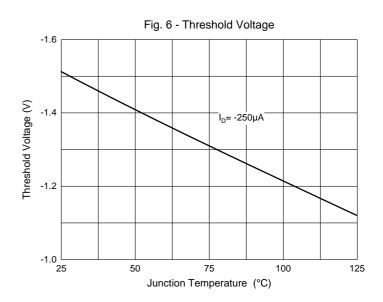














Ordering Information

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

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