

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 Available Upon Request By Adding Suffix "-HF"

Dual P-Channel MOSFET

Maximum Ratings

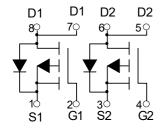
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 89°C/W Junction to Ambient (Note 2)

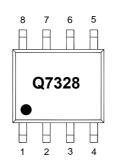
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V _{GS}	±20	V
Drain Current	I _D	-8	Α
Pulsed Drain Current (Note 1)	I _{DM}	-32	Α
Total Power Dissipation (Note 2)	P _D	1.4	W

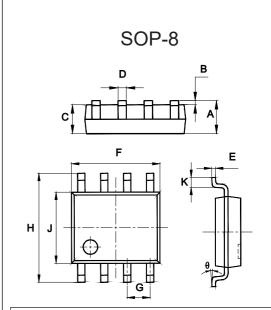
Notes:

- 1. Pulse Width Limited By Junction Temperature.
- 2. Surface Mounted on 1"x1" FR4 Board, t≤10s.

Internal Structure and Marking Code

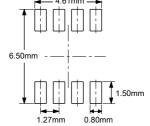






DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.053	0.069	1.35	1.75	
В	0.004	0.010	0.10	0.25	
С	0.053	0.061	1.35	1.55	
D	0.013	0.020	0.33	0.51	
Е	0.007	0.010	0.17	0.25	
F	0.185	0.200	4.70	5.10	
G	0.050		1.270		TYP.
Н	0.228	0.244	5.80	6.20	
J	0.150	0.157	3.80	4.00	
K	0.016	0.050	0.40	1.27	
θ	0°	8°	0°	8°	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

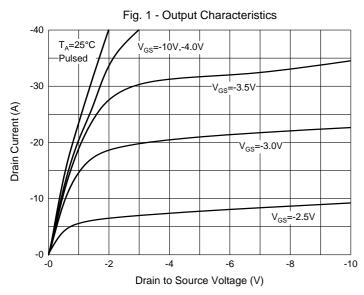
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics	1			1			
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-30			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V			-15	μA	
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)	R _{DS(on)}	V _{GS} =-10V, I _D =-8A		19	21	m0	
		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)			<u> </u>	1			
Input Capacitance	C _{iss}			2675		pF	
Output Capacitance	C _{oss}	V_{DS} =-25V, V_{GS} =0V,f=1MHz		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			23		
Turn-Off Delay Time	t _{d(off)}	$R_G=6\Omega,R_D=15\Omega$			297	- ns	
Turn-Off Fall Time	t _f				147		
Drain-Source Body Diode Cha	racteristi	cs	1	1	I	L	
Body Diode Voltage ^(Note 3)	V _{SD}	I _{SD} =-2A, V _{GS} =0V			-1.2	V	
	1			1	I .		

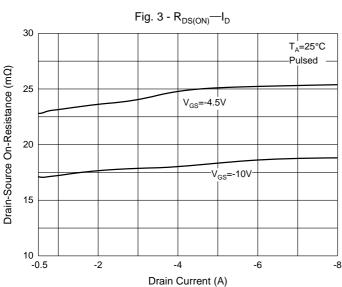
Notes:

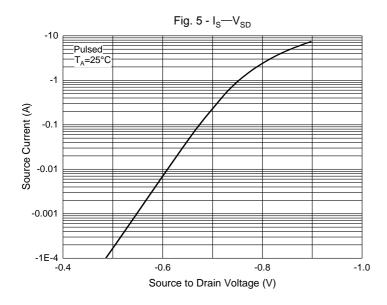
- 3. Pulse Test : Pulse Width≤300µs, Duty Cycle≤2%.
- 4. Guaranteed by Design, Not Subject to Production Testing.

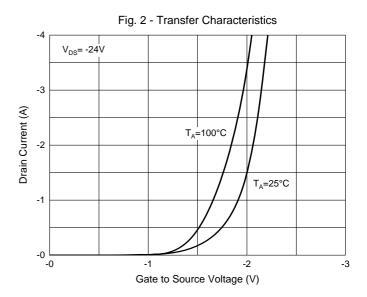


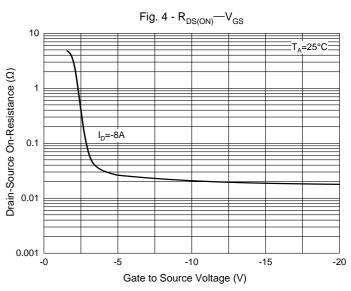
Curve Characteristics

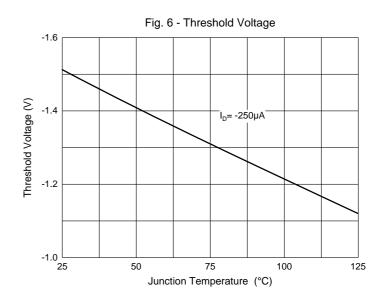














Ordering Information

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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