

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"

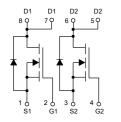


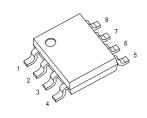
Maximum Ratings

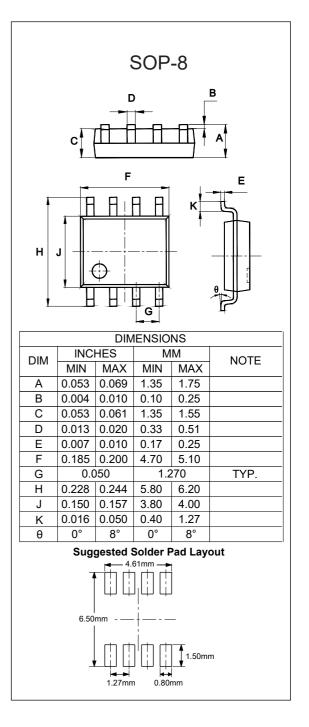
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 62.5°C/W Junction to Ambient

Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V _{DS}	60	V
Gate-Source Volltage		V_{GS}	±20	V
Continuous Drain Current (t≤10s) ^(Note 1)		I _D	5.0	Α
Continuous Drain Current	T _C =100°C	I _D	3.5	Α
Pulsed Drain Current (Note 2)		I _{DM}	24	Α
Total Power Dissipation		P _D	2.0	W

Internal Structure:







Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics				1	1	I	
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)}	$V_{DS}=V_{GS}$, $I_{D}=250\mu A$	1.2	1.6	2.5	V	
Drain-Source On-Resistance ^(Note 3)		V _{GS} =10V, I _D =5A		26	35	mΩ	
	R _{DS(on)}	V _{GS} =4.5V, I _D =5A		32	45		
Forward Tranconductance ^(Note 3)	g _{FS}	V _{DS} =5V, I _D =5A	11			S	
Dynamic Characteristics ^(Note 4)							
Input Capacitance	C _{iss}	V _{DS} =30V,V _{GS} =0V,f=1MHz		979		pF	
Output Capacitance	C _{oss}			120			
Reverse Transfer Capacitance	C _{rss}			100			
Switching Characteristics ^{(Note}	4)						
Turn-On Delay Time	t _{d(on)}			5.2			
Turn-On Rise Time	t _r	V _{GS} =10V, V _{DD} =30V		3		ns	
Turn-Off Delay Time	t _{d(off)}	R_{G} =3 Ω , R_{L} =6.7 Ω		17			
Turn-Off Fall Time	t _f			2.5			
Total Gate Charge	Qg			22			
Gate-Source Charge	Q _{gs}	V _{DS} =30V, VGS=10V I _D =5A		3.3		nC	
Gate-Drain Charge	Q _{gd}			5.2			
Drain-Source Diode Character	ristics						
Diode Forward Voltage ^(Note 3)	V _{SD}	V _{GS} =0V, I _S =5A			1.2	V	
Diode Forward Current ^(Note 2)	I _S				5	А	

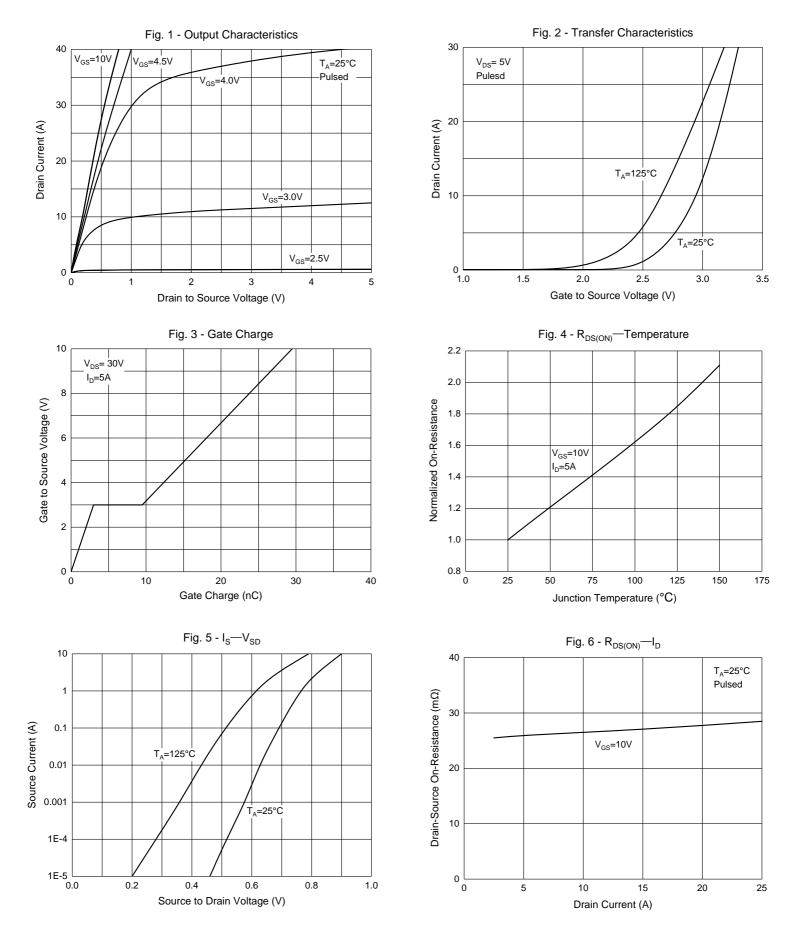
Notes :

1. The Value In Any Given Application Depends On The User's Specific Board Design.

- 2. Pulse Width Limited by Junction Temperature.
- 3. Pulse Test : Pulse Width≤300 μ s, Duty Cycle≤0.5%.
- 4. These Parameters Have No Way to Verify.



Curve Characteristics





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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