

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"

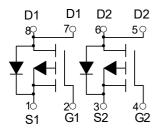


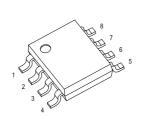
Maximum Ratings

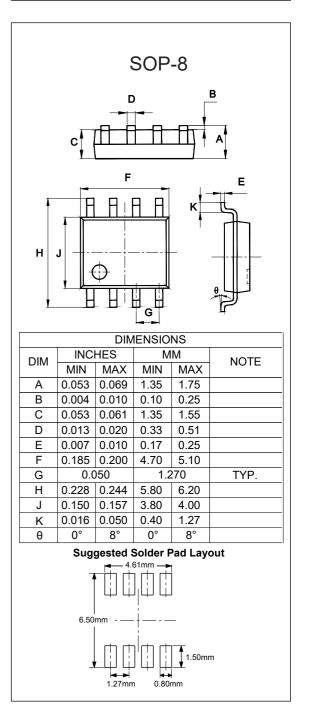
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 50°C/W Junction to Ambient^(Note 1)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V _{GS}	±20	V
Continuous Drain Current	I _D	-5.0	Α
Total Power Dissipation	P _D	2.5	W

Internal Structure:









Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Static Characteristics						
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} =-30V, V _{GS} =0V			-1	μA
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250µA	-1.0	-1.5	-2.5	V
Drain-Source On-Resistance	5	V _{GS} =-10V, I _D =-4.9A		50	60	- mΩ
	R _{DS(on)}	V _{GS} =-4.5V, I _D =-3.7A		66	90	
Forward Tranconductance ^(Note 2)	g fs	V _{DS} =-10V, I _D =-4.9A	6			S
Diode Forward Voltage ^(Note 2)	V _{SD}	V _{GS} =0V, I _S =-1.7A			-1.2	V
Dynamic Characteristics ^{(Note 3})					
Turn-On Delay Time	t _{d(on)}	V _{GEN} =-10V, V _{DD} =-15V, ID≈-1A R _G =6Ω, R _L =15Ω			15	
Turn-On Rise Time	t _r				20	
Turn-Off Delay Time	t _{d(off)}				80	- ns
Turn-Off Fall Time	t _f				40	
Total Gate Charge	Qg				25	
Gate-Source Charge	Q _{gs}	V _{GS} =-10V, V _{DS} =-15V I _D =-4.9A		4		nC
Gate-Drain Charge	Q _{gd}			2		

Notes :

1. Surface Mounted on FR4 Board, t \leq 10 sec.

2. Pulse Test : Pulse Width \leq 300µs, Duty Cycle \leq 2%.

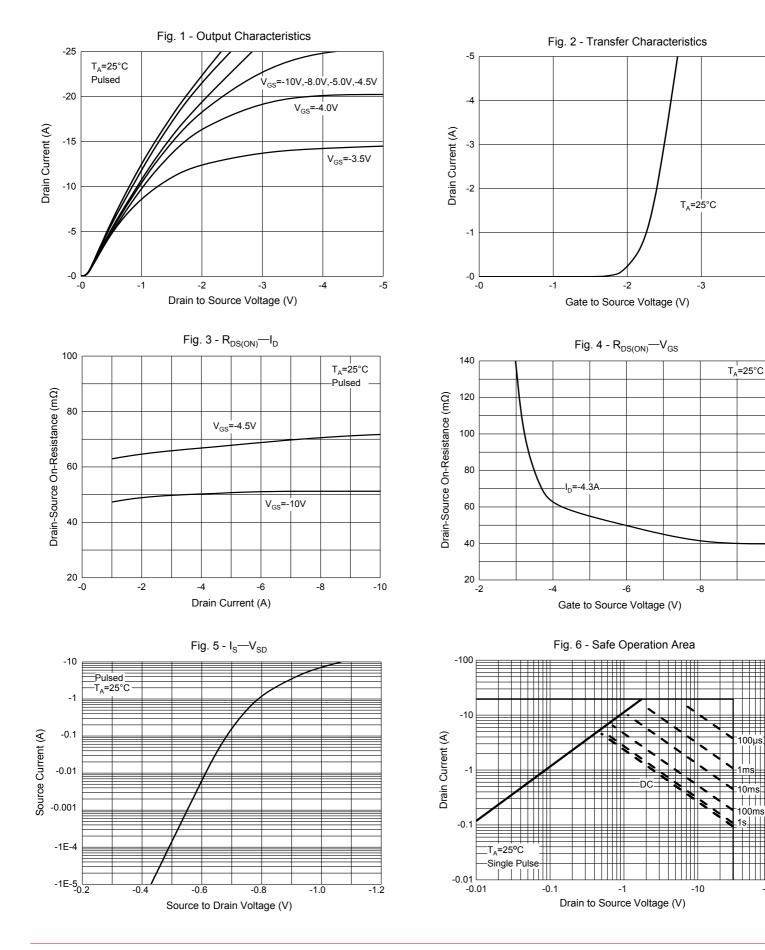
3. Guaranteed by Design, Not Subject to Production Testing.

-4

-10



Curve Characteristics



-100



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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