

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"

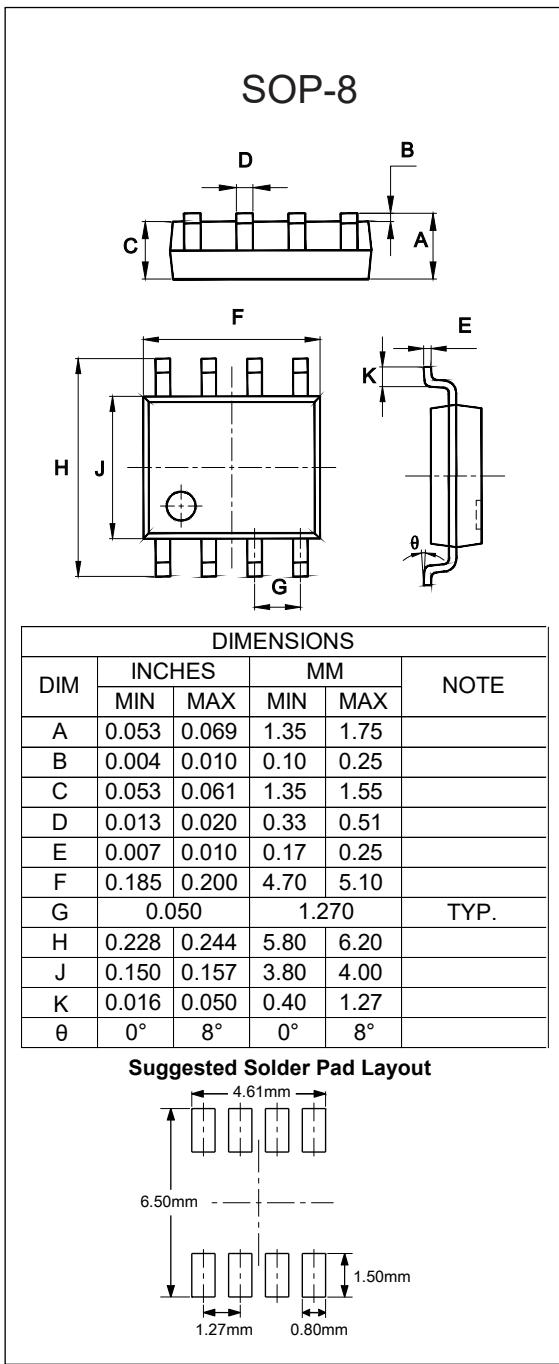
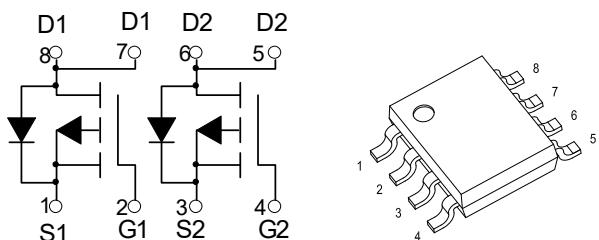
Dual P-Channel Power MOSFET

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 Voltage	V_{GS}	± 20	V
Continuous Drain Current	I_D	-5.0	A
Total Power Dissipation	P_D	2.5	W

Internal Structure:



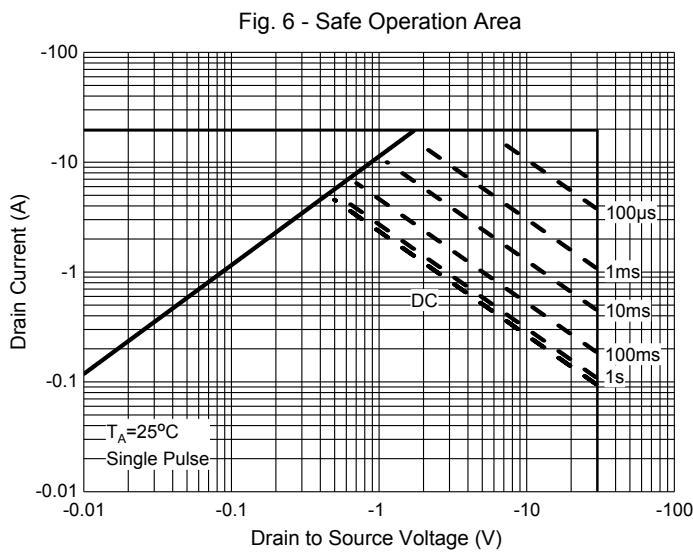
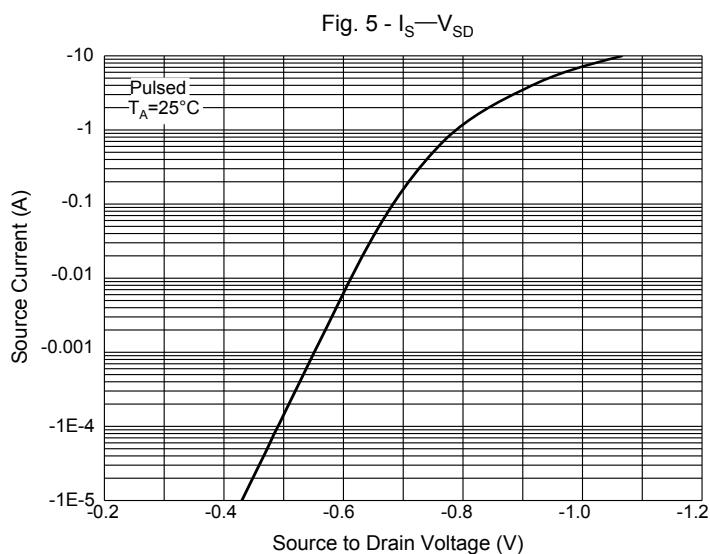
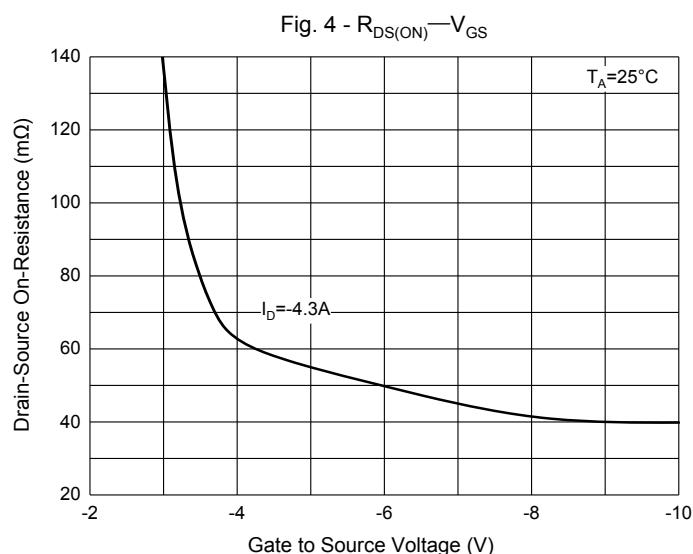
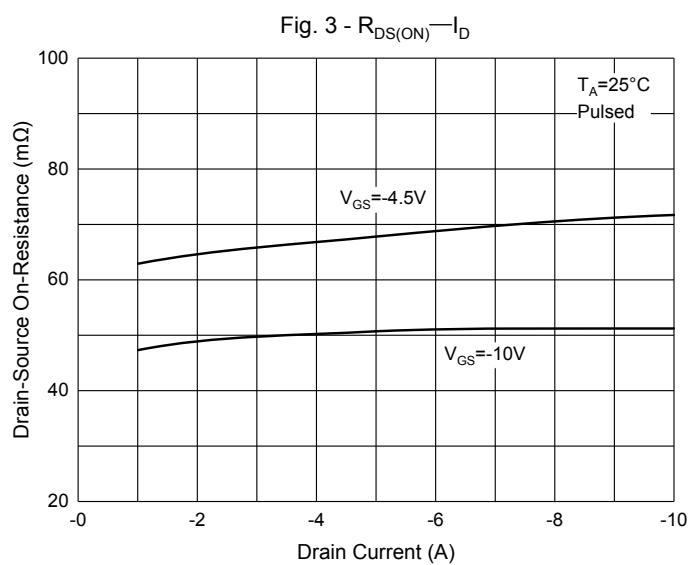
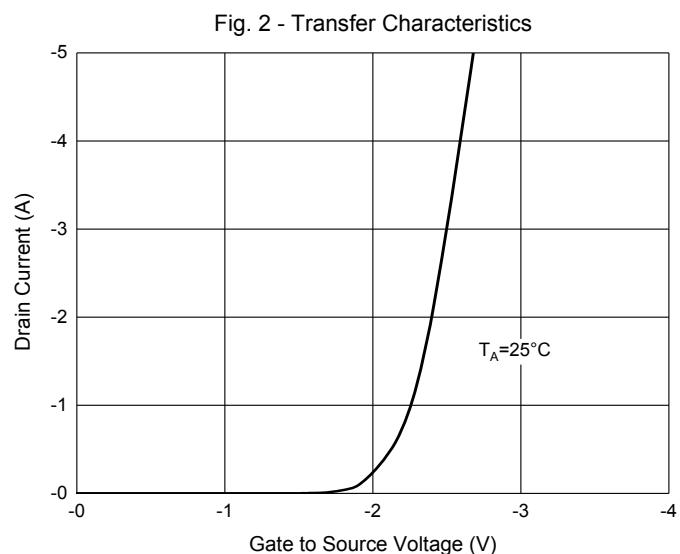
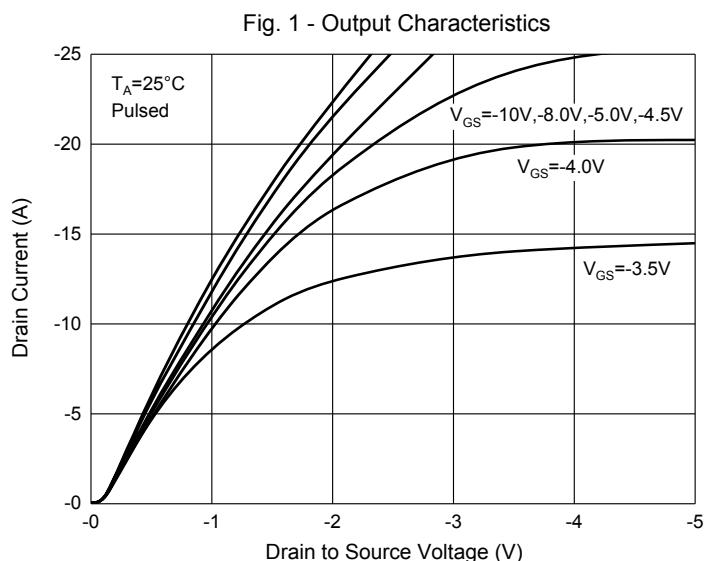
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Static Characteristics						
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$V_{GS}=0V, I_D=-250\mu A$	-30			V
Gate-Source Leakage Current	I_{GSS}	$V_{DS}=0V, V_{GS}=\pm 20V$			± 100	nA
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=-30V, V_{GS}=0V$			-1	μA
Gate-Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=-250\mu A$	-1.0	-1.5	-2.5	V
Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=-10V, I_D=-4.9A$		50	60	$m\Omega$
		$V_{GS}=-4.5V, I_D=-3.7A$		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	$t_{d(on)}$	$V_{GEN}=-10V, V_{DD}=-15V, I_D \approx -1A$ $R_G=6\Omega, R_L=15\Omega$			15	ns
Turn-On Rise Time	t_r				20	
Turn-Off Delay Time	$t_{d(off)}$				80	
Turn-Off Fall Time	t_f				40	
Total Gate Charge	Q_g	$V_{GS}=-10V, V_{DS}=-15V$ $I_D=-4.9A$			25	nC
Gate-Source Charge	Q_{gs}			4		
Gate-Drain Charge	Q_{gd}			2		

Notes :

1. Surface Mounted on FR4 Board, $t \leq 10$ sec.
2. Pulse Test : Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$.
3. 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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