

SED5935

Dual P-Channel 1.8-V (G-S) MOSFET

APPLICATIONS

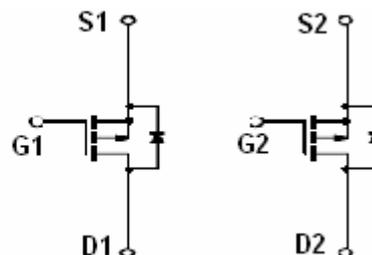
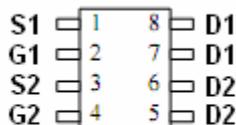
Load Switch
PA Switch
Battery Switch

Features

TrenchFET_ Power MOSFETS
Low $r_{DS(on)}$ Dual and Excellent Power Handling In A Compact Footprint



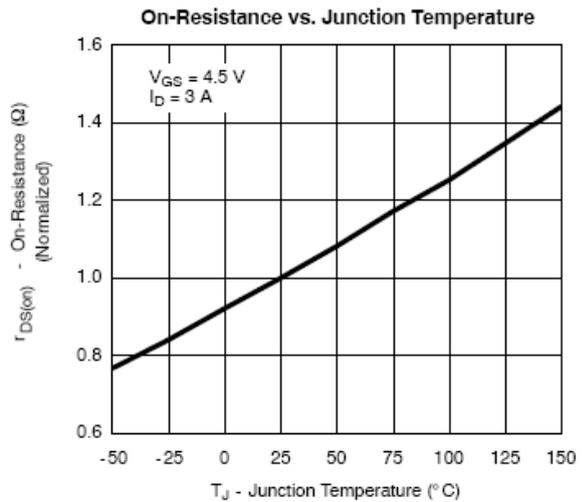
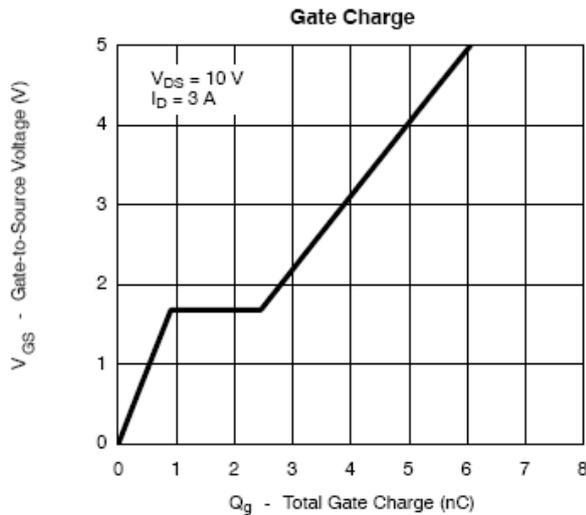
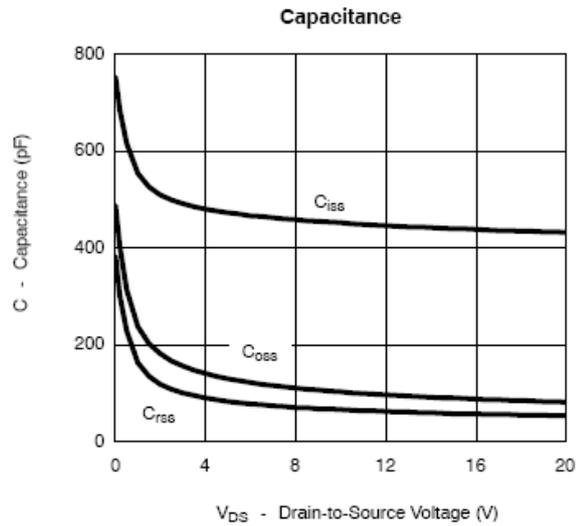
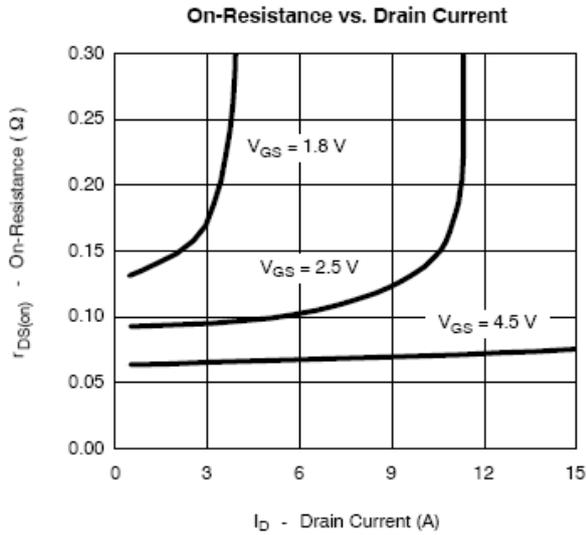
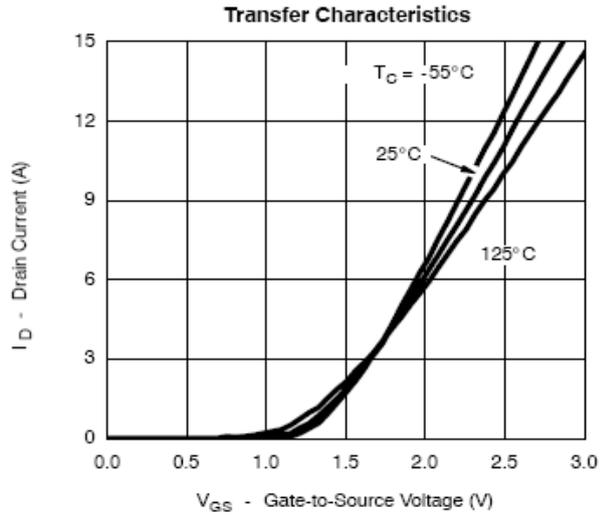
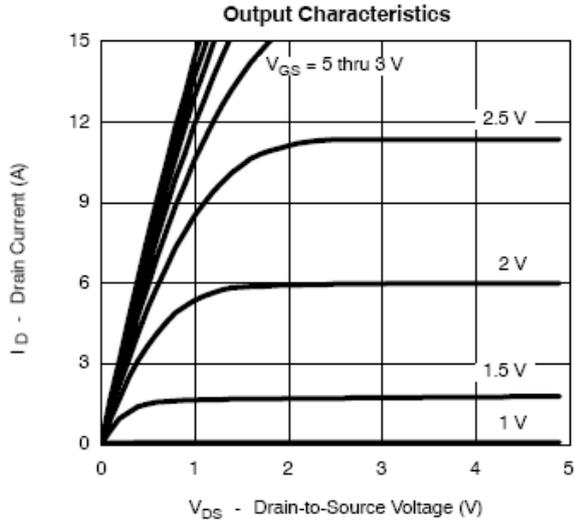
DFN3X2-8L



Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit			
Drain-Source Voltage	V_{DS}	-20	V			
Gate-Source Voltage	V_{GS}	± 8	V			
Junction and Storage Temperature Rang	I_J, I_{STG}	-55 to 150	°C			
PARAMETERS	Symbol	TestConditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D = -250\mu A, V_{GS} = 0V$	-20	--	--	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = 20V, V_{GS} = 0V$	--	--	1	μA
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0V, V_{GS} = \pm 8V$	--	--	± 100	nA
Gate Threshold Voltage	$V_{GS(IN)}$	$V_{DS} = V_{GS}, I_D = -250\mu A$	-0.4	--	-1	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	$V_{GS} = 4.5V, I_D = -2.8A$	--	100	130	m Ω
		$V_{GS} = 2.5V, I_D = -2A$	--	120	200	
Forward Transconductance	g_{FS}	$V_{DS} = 5V, I_D = 3.6A$	2	7.7	14	S
Input Capacitance	C_{iss}	$V_{DS} = 10V, V_{GS} = 0V,$ $f = 1.0MHz$	--	420	--	pF
Output Capacitance	C_{oss}		--	220	--	
Reverse Transfer Capacitance	C_{rss}		--	90	--	
Turn-On Delay Time	$t_{d(on)}$	$V_{DD} = 5V, I_D = 3.6A,$ $V_{GS} = 4.5V, R_{GEN} = 6\Omega$	--	--	25	nS
Turn-On Rise Time	t_r		--	--	80	
Turn-Off Delay Tim	$t_{d(off)}$		--	--	150	
Turn-Off Fall Time	t_f		--	--	25	
Diode Forward Voltage ⁽²⁾	V_{SD}	$V_{GS} = 0V, I_S = 1.1A$	0.5	0.8	1.2	V

TYPICAL ELECTRICAL AND THERMAL CHARACTERISTICS



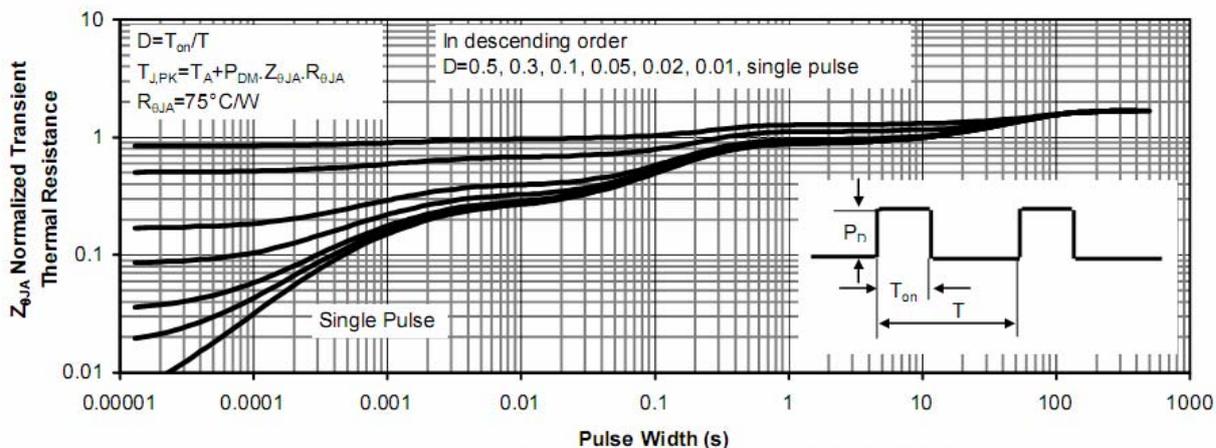


Figure 11: Normalized Maximum Transient Thermal Impedance

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