	Value	Unit
	60	V
	2.8	V
	256	A
	1.1	m

	Marking	MSL	Form	Reel(pcs)	Per Carton (pcs)
	SH060SPQ	1	Tape&Reel	5000	50000

Symbol			Unit
V_{DS}			V
V_{GS}			V
	T_C = 25°C		
	T_C = 100°C		
I			

Electrical Characteristics (T_J = 25°C unless otherwise specified)

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
Off Characteristics						
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	I_D = 250PA, V_{GS} = 0V	60	-	-	V
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS} = 48V, V_{GS} = 0V	-	-	1.0	A
I_{GSS}	Gate-Body Leakage Current	V_{DS} = 0V, V_{GS} = ±20V	-	-	±100	nA
On Characteristics						
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS} = V_{GS}, I_D = 250PA	2.0	2.8	4.0	V
$R_{DS(ON)}$	Static Drain-Source ON-Resistance(4)	V_{GS} = 10V, I_D = 20A	-	1.1	1.4	m
Dynamic Characteristics						
R_g	Gate Resistance	f = 1MHz	-	0.7	-	
C_{iss}	Input Capacitance	V_{GS} = 0V, V_{DS} = 30V, f = 1MHz	5003	7004	9456	pF
C_{oss}	Output Capacitance		1722	2411	3254	pF
C_{rss}	Reverse Transfer Capacitance		68	95	128	pF
Q_g	Total Gate Charge	V_{GS} = 0 to 10V V_{DS} = 30V, I_D = 20A	79	111	150	nC
Q_{gs}	Gate Source Charge		13	19	25	nC
Q_{gd}	Gate Drain("Miller") Charge		16	22	30	nC
Switching Characteristics						
$t_{d(on)}$	Turn-On DelayTime	V_{GS} = 10V, V_{DD} = 30V I_D= 20A, R_{GEN} = 3:	-	17	-	ns
t_r	Turn-On Rise Time		-	30	-	ns
$t_{d(off)}$	Turn-Off DelayTime		-	69	-	ns
t_f	Turn-Off Fall Time		-	24	-	ns
Body Diode Characteristics						
I_S	Maximum Continuous Body Diode Forward Current		-	-	256	A
I_{SM}	Maximum Pulsed Body Diode Forward Current		-	-	1024	A
V_{SD}	Body Diode Forward Voltage	V_{GS} = 0V, I_S = 20A	-		1.2	V
trr	Body Diode Reverse Recovery Time	I_F = 20A, di/dt = 100A/us	49	69	93	ns
Qrr	Body Diode Reverse Recovery Charge		-	114	-	nC

Notes: 1. Repetitive Rating: Pulse Width Limited by Maximum Junction Temperature.

2. E_{AS} condition: Starting T_J=25C, V_{DD}=30V, V_{GS}=10V, R_G=25ohm, L=3mH, I_{AS}=23.1A, V_{DD}=0V during time in avalanche.

3. R is measured with the device mounted on a 1inch^2 pad of 2oz copper FR4 PCB.

4. Pulse Test: Pulse Width 0.5%.

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Typical Performance Characteristics

Figure 5: Output Characteristics

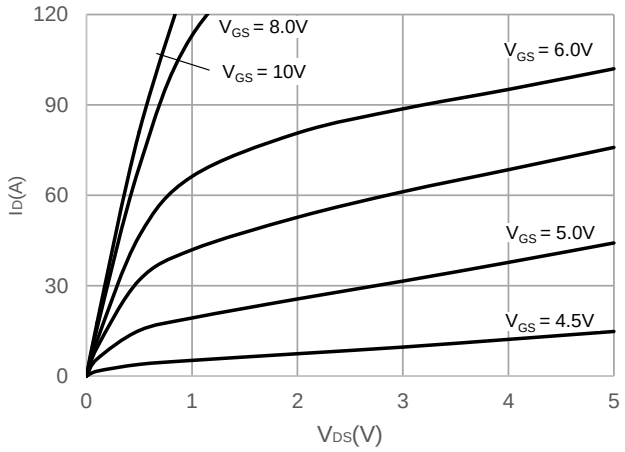
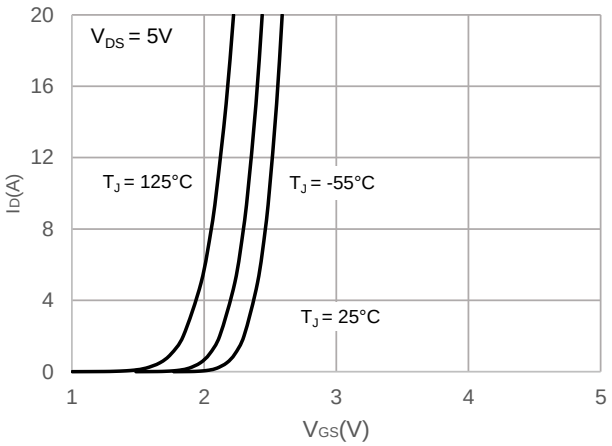
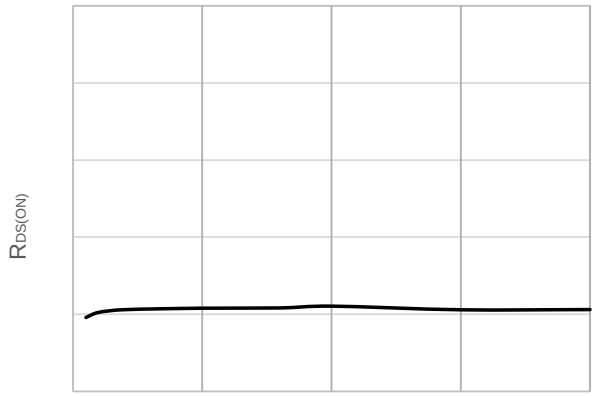


Figure 6: Typical Transfer Characteristics





Test Circuit

Package Mechanical Data(PDFN5X6-8L-W)

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