

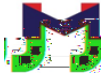


Value	Unit
60	V
2.8	V
256	A
1.1	mΩ

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

Symbol	Unit
V _{DS}	V
V _{GS}	V
I	T _C = 25°C T _C = 100°C



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 = 250μA, V _{GS} = 0V	60	-	-	V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 48V, V _{GS} = 0V	-	-	1.0	μA
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 = 250μA	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	mΩ
Dynamic Characteristics						
R _g	Gate Resistance	f = 1MHz	-	0.7	-	Ω
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} = 3Ω	-	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=25°C, 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 1inch² pad of 2oz copper FR4 PCB.
 4. Pulse Test: Pulse Width 0.5%.



Typical Performance Characteristics

Figure 5: Output Characteristics

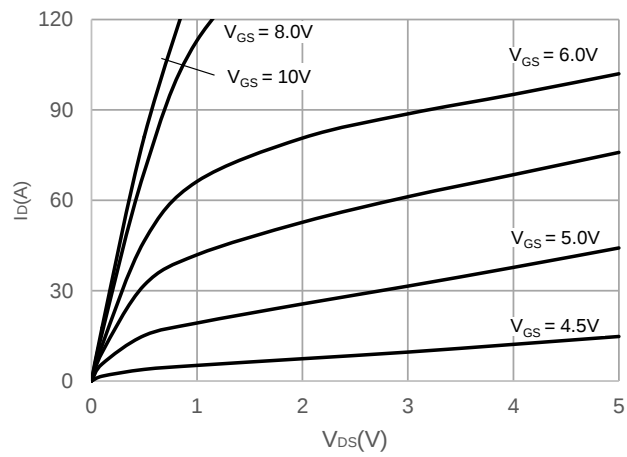
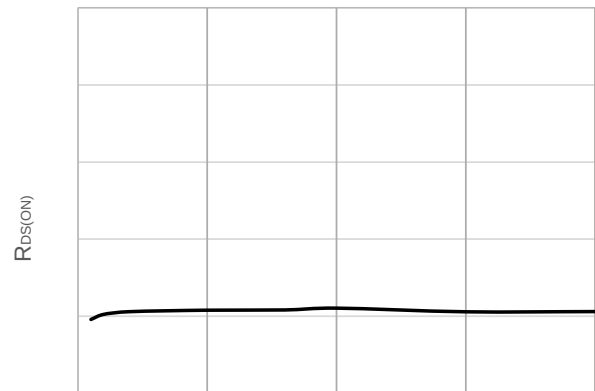
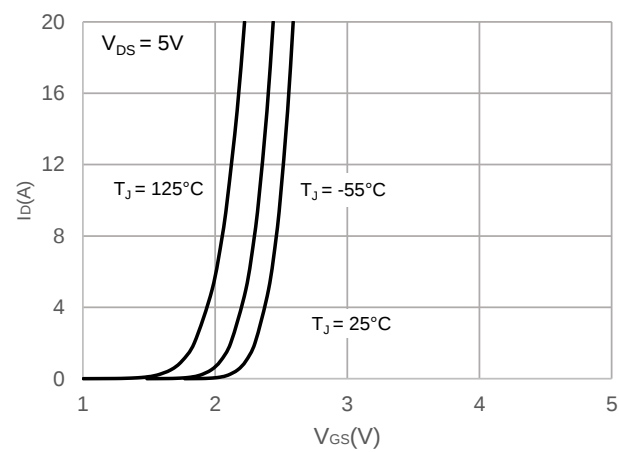


Figure 6: Typical Transfer Characteristics



Test Circuit

Package Mechanical Data(PDFN5X6-8L-W)

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