JMSH04011GL4LQ

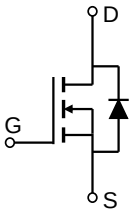
Features

Ultra-low ON-resistance, $R_{DS(ON)}$

Product Summary

Parameters	Value	Unit
V_{DSS}	40	V
$V_{GS(th)_Typ}$	2.8	V
I_D(@V_{GS}=10V)	306	A
$R_{DS(ON)_Typ}$(@V_{GS}=10V	0.8	m

RoHS



LFPAK5X6-8L **Pin Assignment** **Schematic Diagram**

Ordering Information

Device	Marking	MSL	Form	Package	Reel(pcs)	Per Carton (pcs)
JMSH04011GL4LQ-13	SH040114LQ	1	Tape&Reel	LFPAK5X6-8L	5000	50000

Absolute Maximum Ratings (@ T_C = 25°C unless otherwise specified)

Symbol	Parameter		Value	Unit
V_{DS}	Drain-to-Source Voltage		40	V
V_{GS}	Gate-to-Source Voltage		±20	V
I_D	Continuous Drain Current	T_C = 25°C	306	A
		T_C = 100°C	217	
I_{DM}	Pulsed Drain Current (1)		Refer to Fig.4	A
E_{AS}	Single Pulsed Avalanche Energy (2)		618	mJ
P_D	Power Dissipation	T_C = 25°C	176	W
		T_C = 100°C	88	
$T_{J,\ STG}$	Junction & Storage Temperature Range		-55 to 175	°C

Thermal Characteristics

Symbol	Parameter	Max	Unit
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient(3)	42	°C/W
$R_{\theta JC}$	Thermal Resistance, Junction to Case	0.85	

Typical Performance Characteristics

Figure 5: Output Characteristics

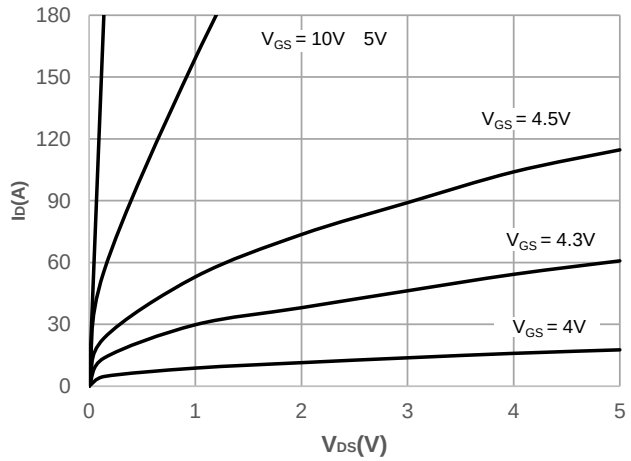


Figure 6: Typical Transfer Characteristics

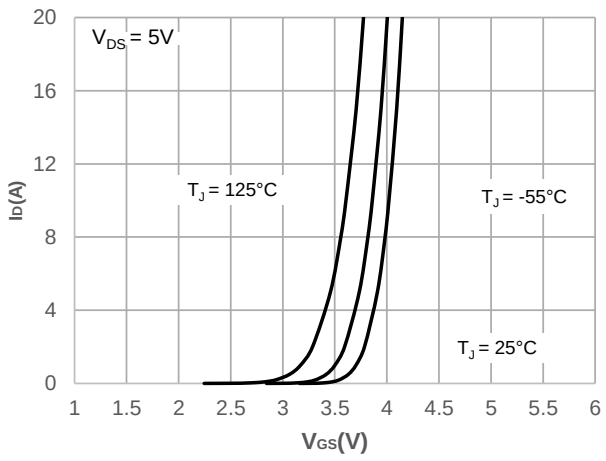


Figure 7: On-resistance vs. Drain Current

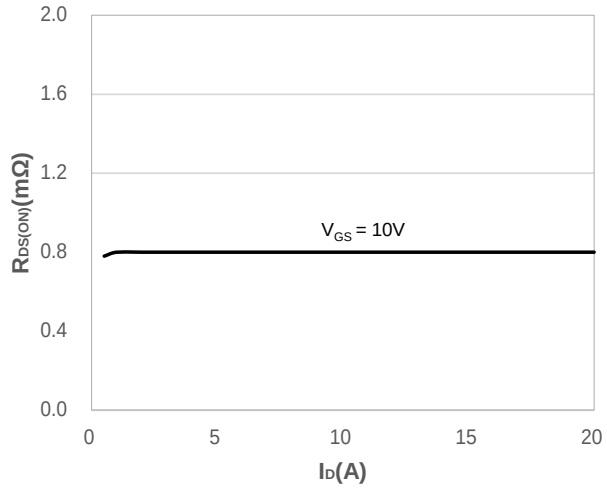


Figure 8: Body Diode Characteristics

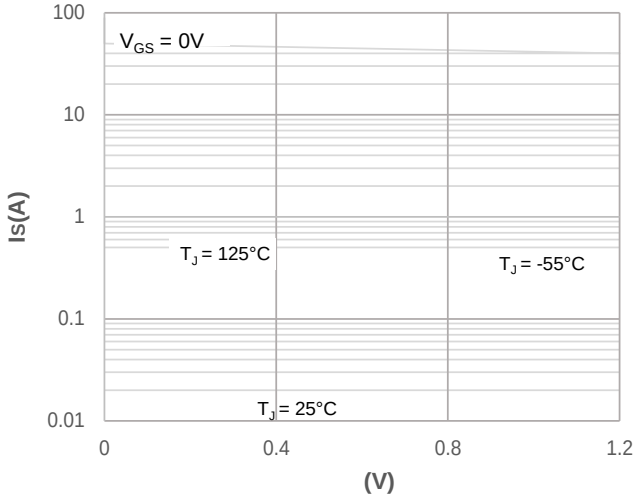


Figure 9: Gate Charge Characteristics

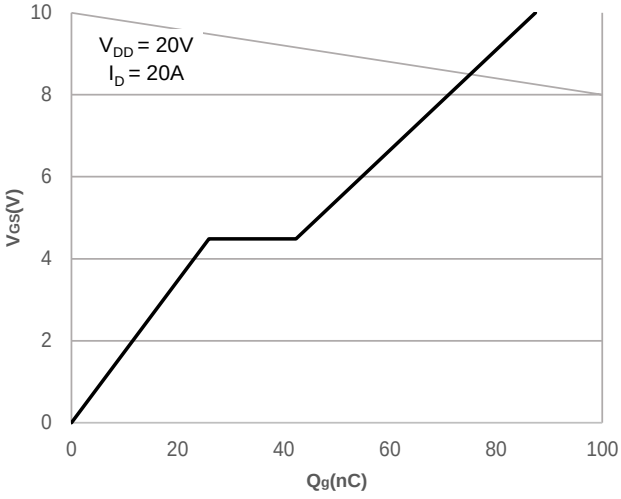
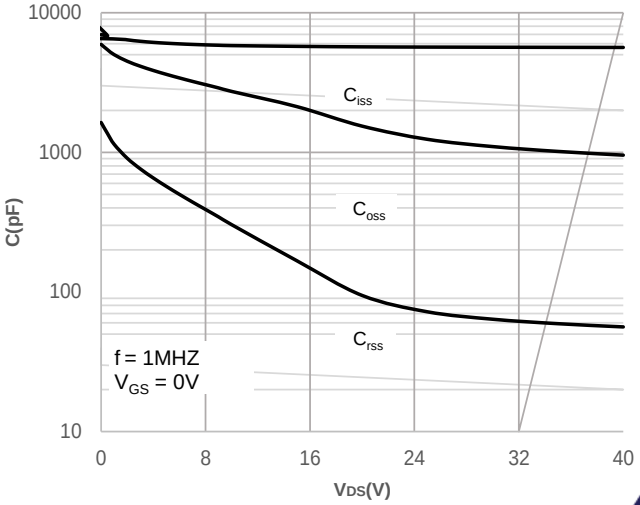


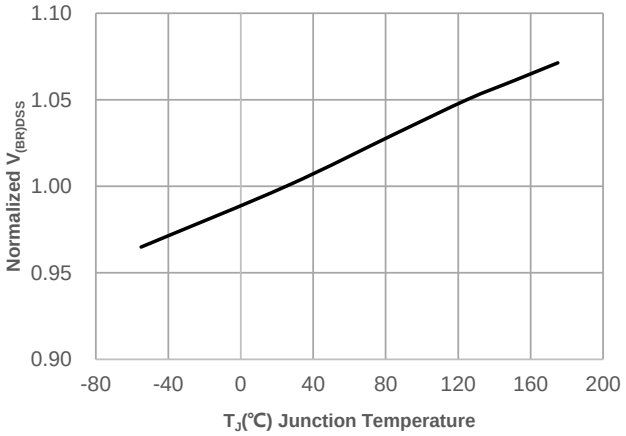
Figure 10: Capacitance Characteristics



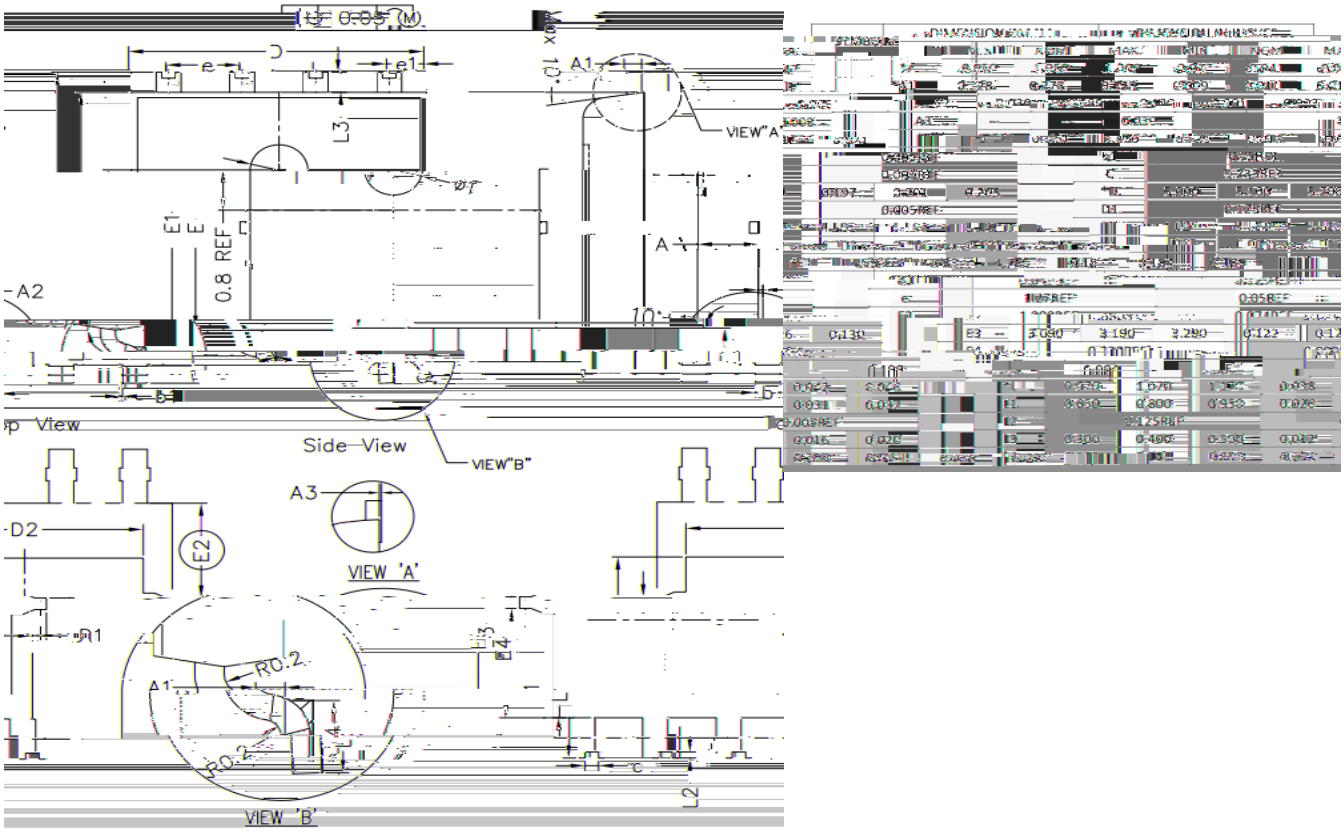
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Typical Performance Characteristics

Figure 11: Normalized Breakdown Voltage vs. Junction Temperature



Package Mechanical Data(LFPAK5X6-8L)



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