JMSH04060G3L

Features

- Excellent $R_{DS(ON)}$ and Low Gate Charge
- 100% UIS Tested
- 100% Vds Tested
- Halogen-free; RoHS-compliant

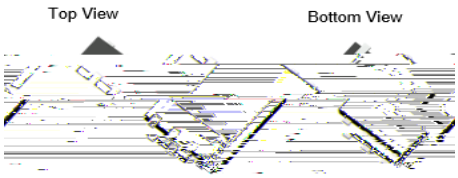
Applications

- Load Switch
- PWM Application
- Power Management

Product Summary

Parameters	Value	Unit
V_{DSS}	40	V
$V_{GS(th)_Typ}$	2.8	V
I_D(@V_{GS}=10V)	87	A
$R_{DS(ON)_Typ}$(@V_{GS}=10V	4.8	mΩ

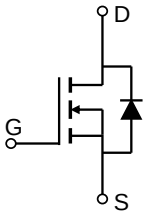
RoHS



PDFN5X6-8L



Pin Assignment



Schematic Diagram

Ordering Information

Device	Marking	MSL	Form	Package	Reel(pcs)	Per Carton (pcs)
JMSH04060G3L-13	SH040603L	1	Tape&Reel	PDFN5x6-8L	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	87	A
		T_C = 100°C	62	
I_{DM}	Pulsed Drain Current [1]		Refer to Fig.4	A
E_{AS}	Single Pulsed Avalanche Energy [2]		106	mJ
P_D	Power Dissipation	T_C = 25°C	83	W
		T_C = 100°C	42	
T_J, T_{STG}	Junction & Storage Temperature Range		-55 to 175	°C

Thermal Characteristics

Symbol	Parameter	Max	Unit
R	Thermal Resistance, Junction to Ambient[3]	45	°C/W
R	Thermal Resistance, Junction to Case	1.8	

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

Symbol	Conditions	Min.	Typ.	Max.	Unit
Off Characteristics					
$V_{(BR)DSS}$		40	-	-	V

Typical Performance Characteristics

Figure 1: Power De -rating

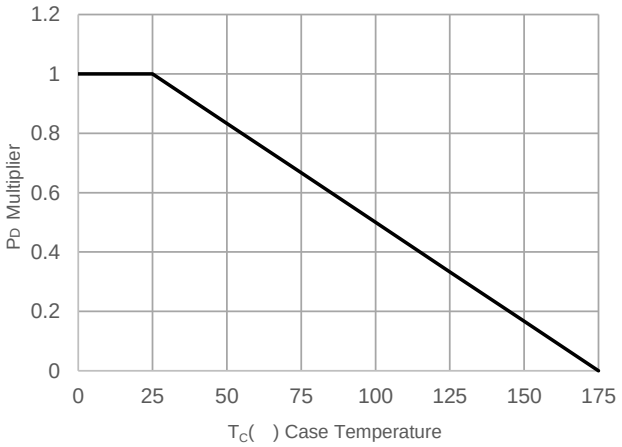
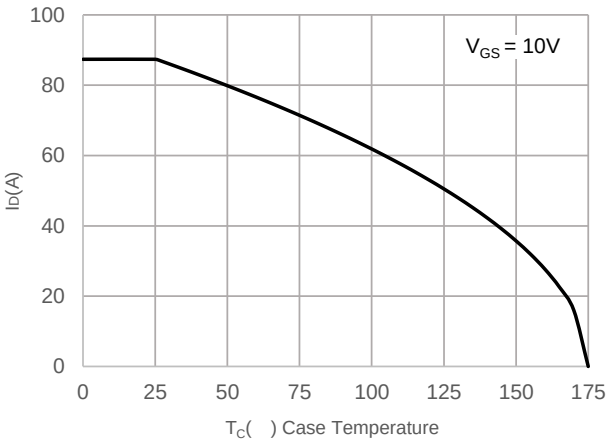
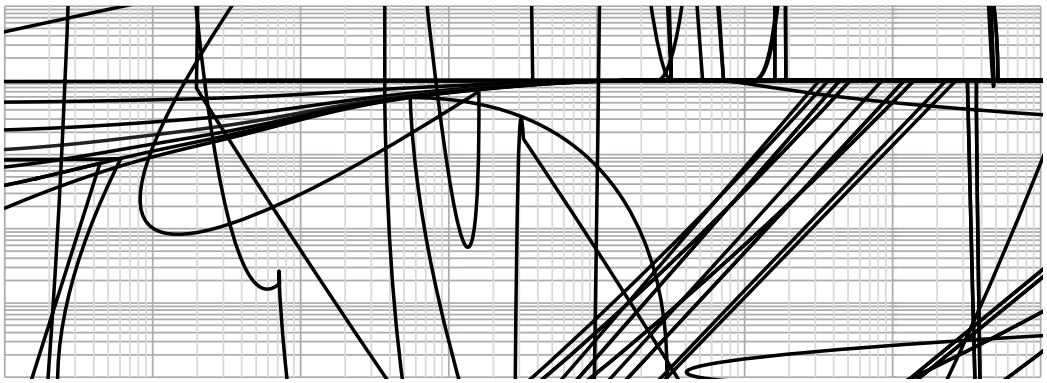
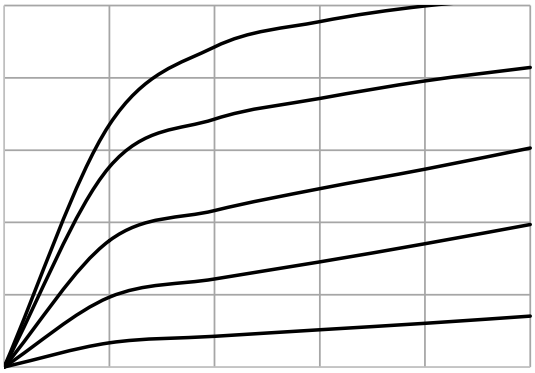


Figure 2: Current De -rating





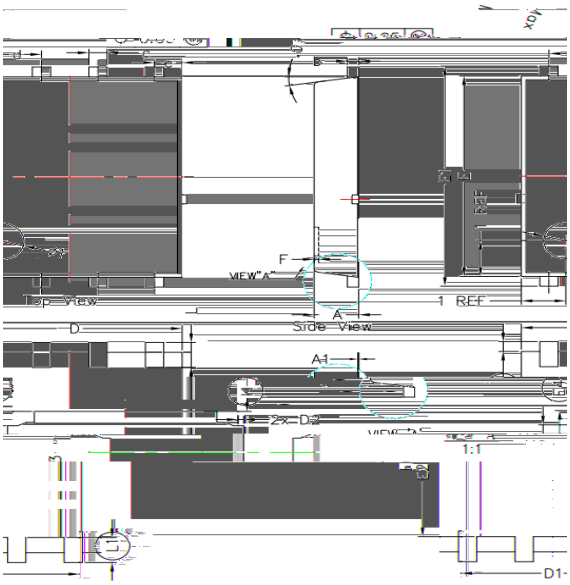
Typical Performance Characteristics



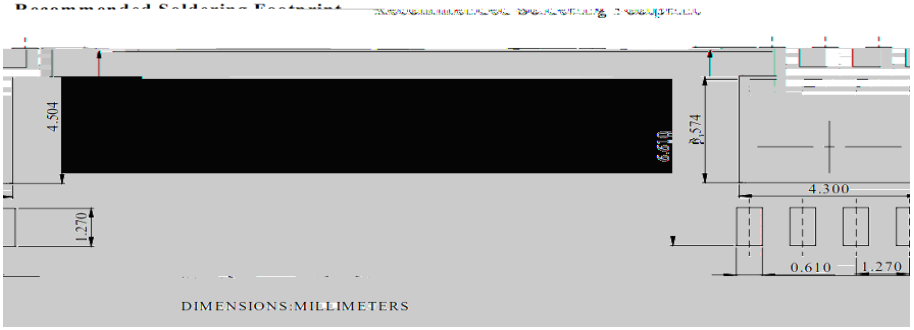
Typical Performance Characteristics

Test Circuit

Package Mechanical Data(PDFN5X6-8L)







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