JMSH0602MG

Product Summary

Parameters	Value	Unit
V_{DSS}	60	V
$V_{GS(th)_Typ}$	2.7	V
I_D(@V_{GS}=10V)	255.2	A
$R_{DS(ON)_Typ}$(@V_{GS}=10V)	1.1	mΩ

Ordering Information

Device	Marking	MSL	Form	Package	Reel(pcs)	Per Carton (pcs)
JMSH0602MG-13	SH0602M	1	Tape&Reel	PDFN5x6-8L	5000	50000

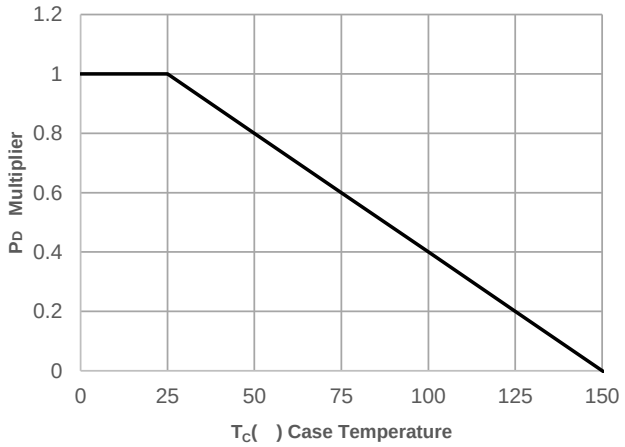
Absolute Maximum Ratings (@ T_C = 25°C unless otherwise specified)

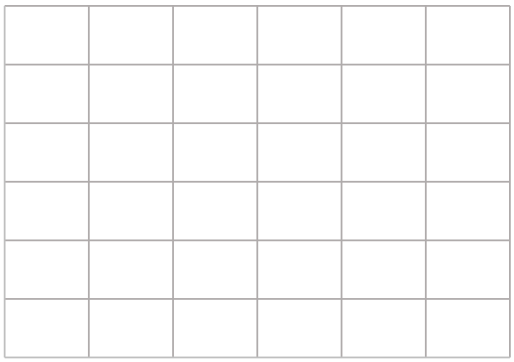
Symbol	Parameter		Value	Unit
V_{DS}	Drain-to-Source Voltage		60	V
V_{GS}	Gate-to-Source Voltage		±20	V
I_D	Continuous Drain Current	T_C = 25°C T_C = 100°C	255.2 161.4	A
I_{DM}	Pulsed Drain Current [1]		Refer to Fig.4	A
E_{AS}	Single Pulsed Avalanche Energy [2]		850	mJ
P_D	Power Dissipation	T_C = 25°C T_C = 100°C		W
T_J, T_{STG}				°C

Symbol	Parameter	Max	Unit
R	Thermal Resistance, Junction to Ambient[3]	43	°C/W
R			

Typical Performance Characteristics

Figure 1: Power De-rating





Typical Performance Characteristics

Figure 5: Output Characteristics

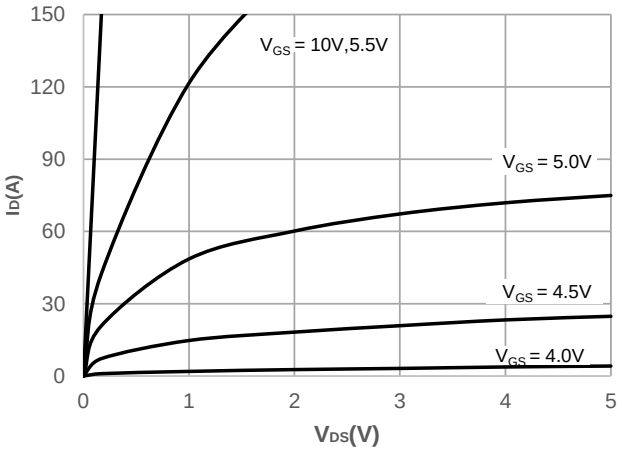
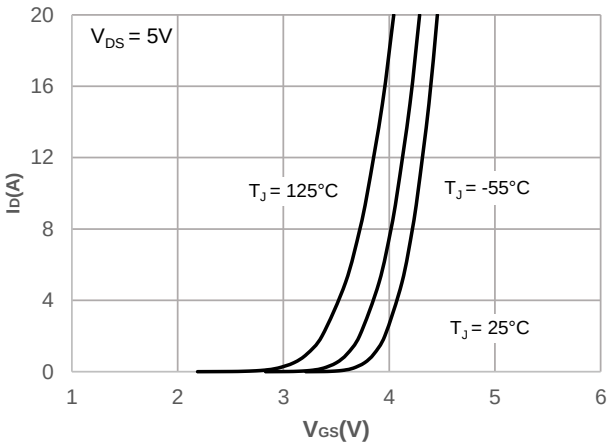
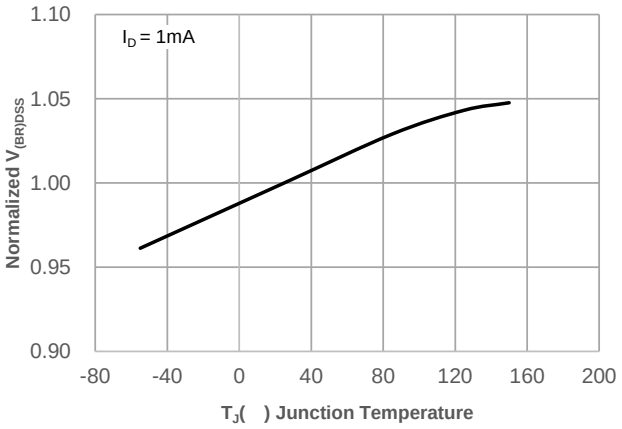


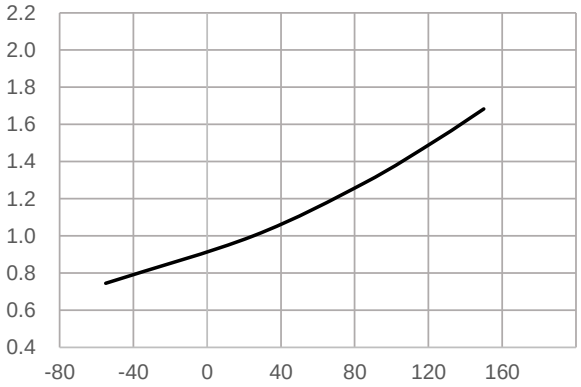
Figure 6: Typical Transfer Characteristics



Typical Performance Characteristics

Figure 11: Normalized Breakdown voltage vs. Junction Temperature





Test Circuit



Figure 1: Gate Charge Test Circuit & Waveform

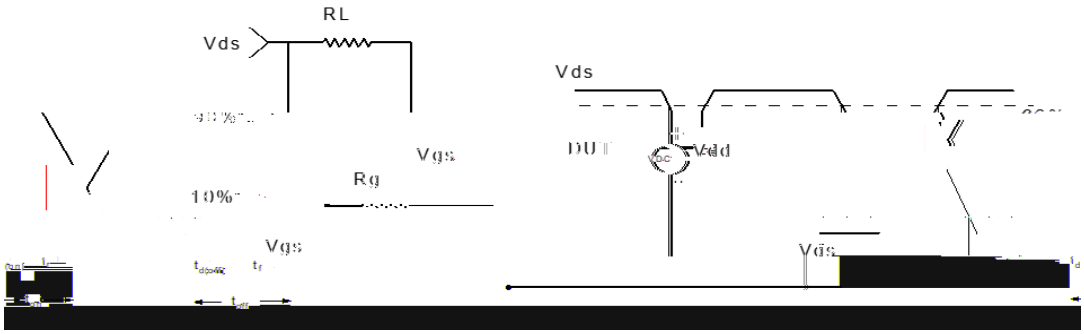


Figure 2: Resistive Switching Test Circuit & Waveform

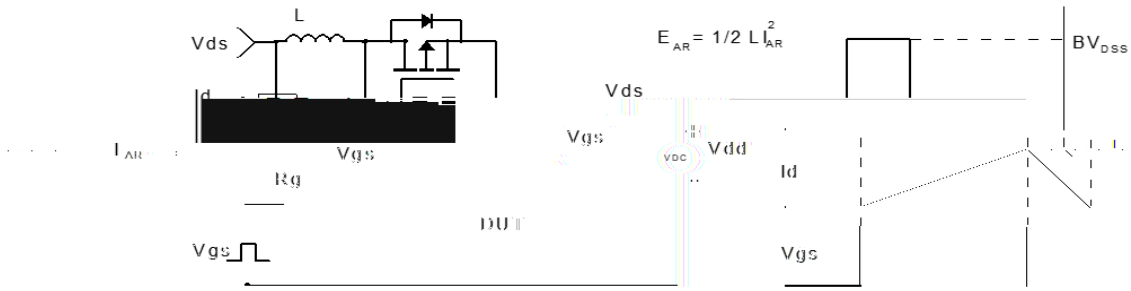


Figure 3: Unclamped Inductive Switching Test Circuit& Waveform

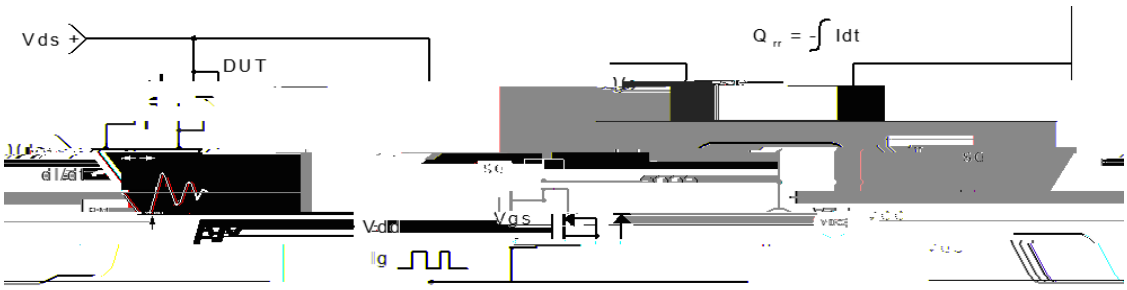


Figure 4: Diode Recovery Test Circuit & Waveform

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