

**5 d d `] W U h] c b**

The ZMD68101S combines advanced trench MOSFET technology with a low resistance package to provide extremely low $R_{DS(ON)}$.

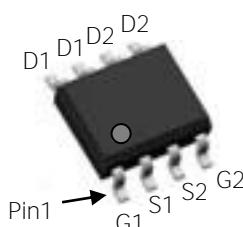
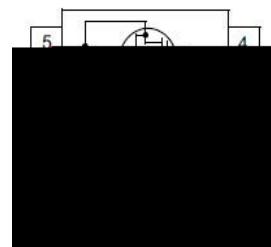
5 : Y U h i f Y g

Advanced trench technology to minimize conductive loss

Dual DIE in one package

5 d d `] W U h] c b

Power Management in Notebook Computer,
Portable Equipment and Battery Powered
Systems

Product Summary

SOP8

C f X Y Information:

Part NO.	ZMD68101S
Marking	ZMD68101
Packing Information	REEL TAPE
Basic ordering unit (pcs)	4000

5 V g c ` i h Y ` A U I] a T c = 2 5 F U h] b [g

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	100	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current	$I_D @ TC=25$	4	A
	$I_D @ TC=75$	3	A
	$I_D @ TC=100$	2.5	A
Pulsed Drain Current	I_{DM}	15	A
Total Power Dissipation	$P_D @ TC=25$	3	W
Total Power Dissipation	$P_D @ TA=25$	1.6	W
Operating Junction Temperature	T_J	-55 to 150	
Storage Temperature	T_{STG}	-55 to 150	
Single Pulse Avalanche Energy	E_{AS}	5	mJ



ZMJ SEMICONDUCTOR CO., LTD

ZMD68101S

Dual N -Channel Power MOSFET





Fig.1 Power Dissipation Derating Curve

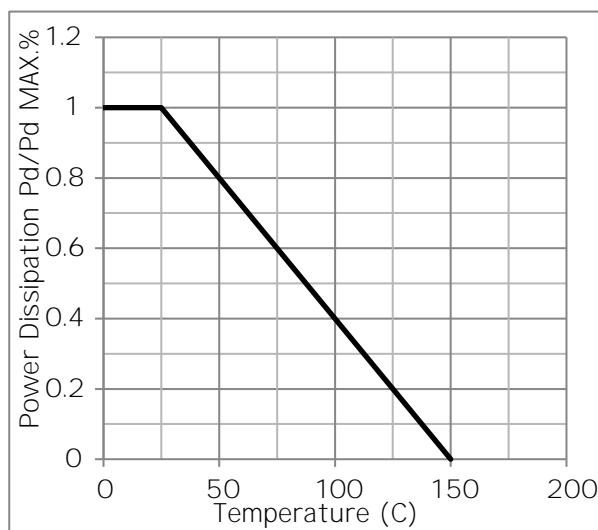


Fig.2 Typical output Characteristics

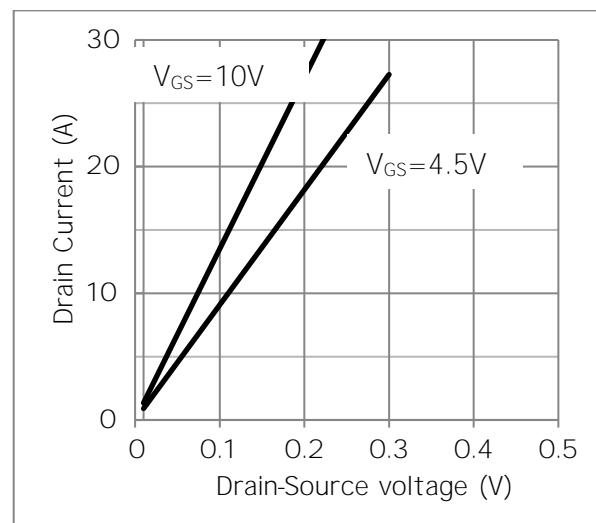


Fig.3 Threshold Voltage V.S Junction Temperature

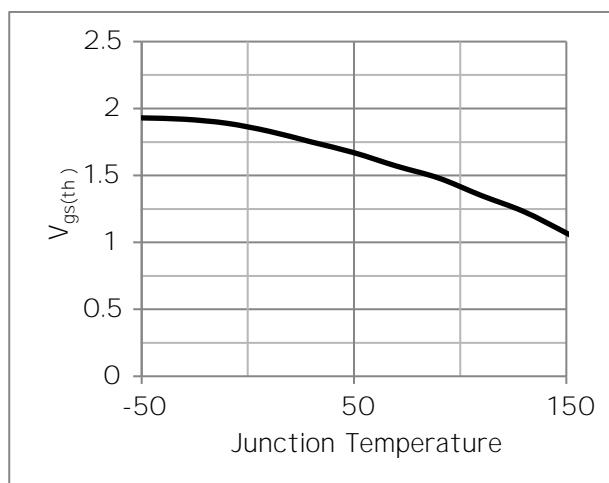


Fig.4 Resistance V.S Drain Current

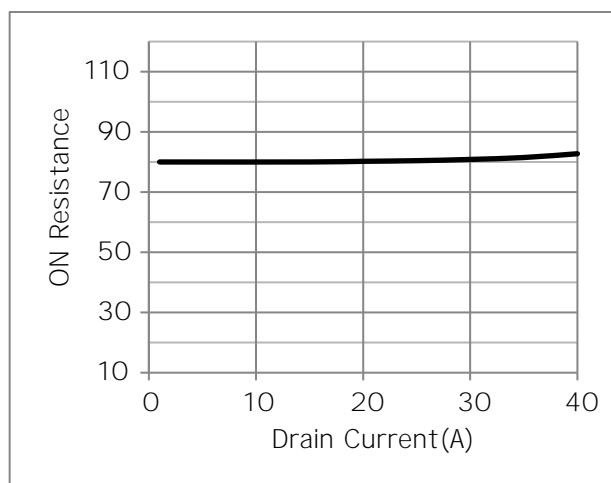


Fig.5 On-Resistance VS Gate Source Voltage

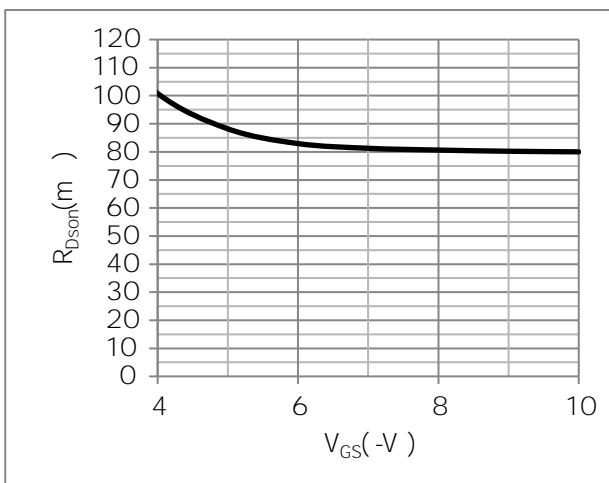


Fig.6 On-Resistance V.S Junction Temperature

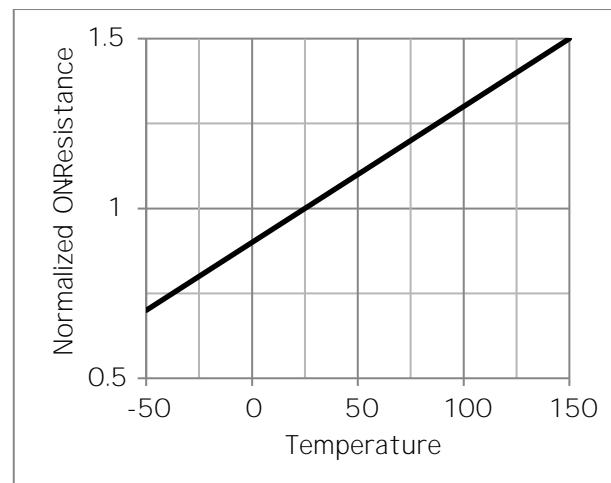




Fig.7 Switching Time Measurement Circuit

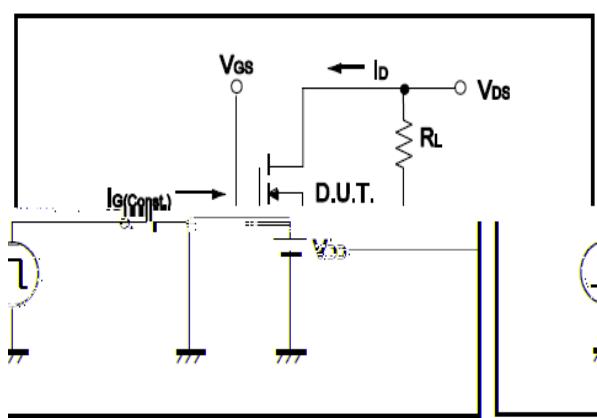


Fig.8 Gate Charge Waveform

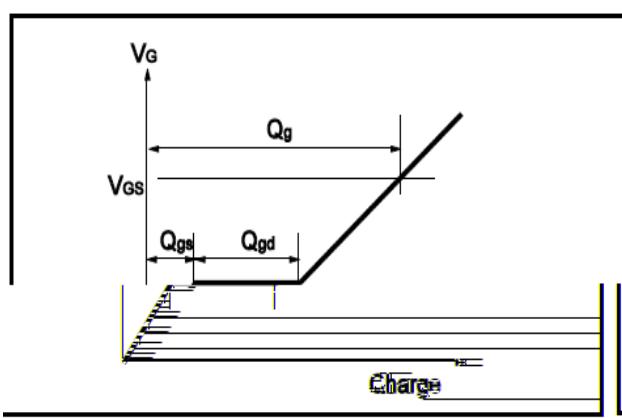


Fig.9 Switching Time Measurement Circuit

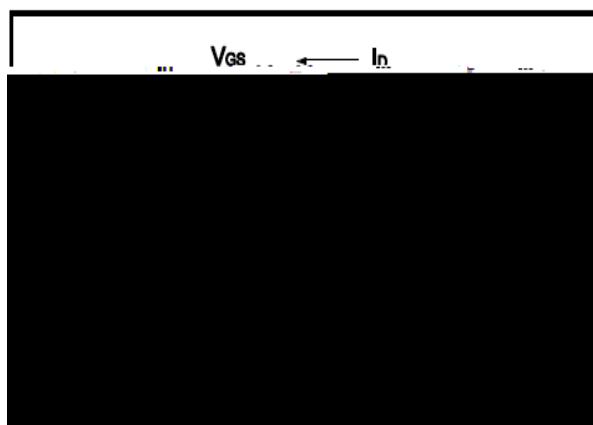


Fig.10 Gate Charge Waveform

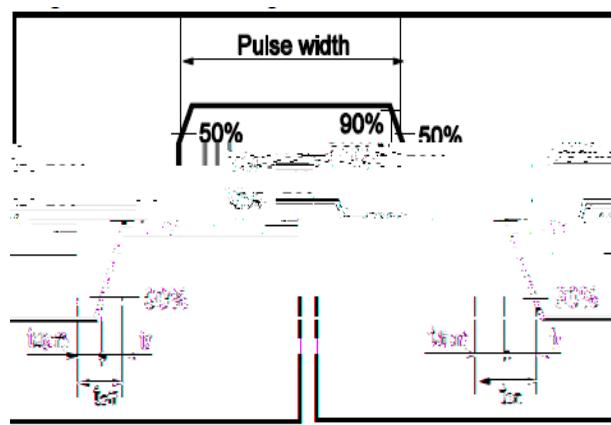


Fig.11 Avalanche Measurement Circuit

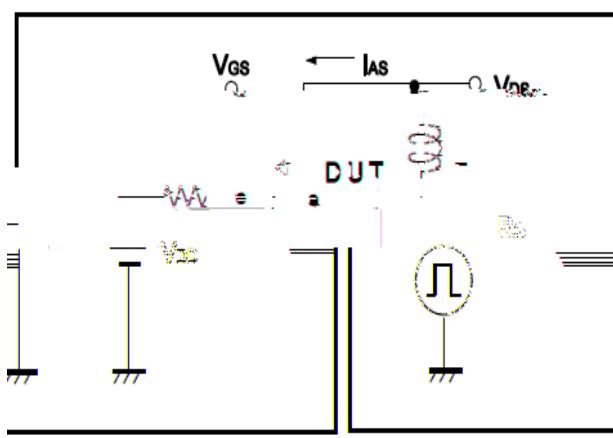


Fig.12 Avalanche Waveform

