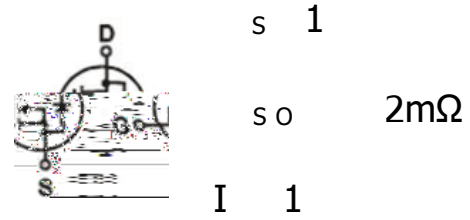




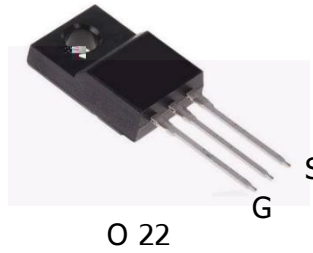
**Product Summary**

The ZMS040N10HF combines advanced SGT MOSFET technology with a low resistance package to provide extremely low  $R_{DS(ON)}$ .



Trench technology  
 $R_{DS(ON)}$  to minimize conductive loss

Synchronous Rectification for AC-DC/DC-DC converter  
 Oring switches  
 Power Tools

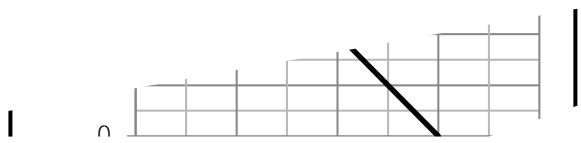


Part No.	ZMS040N10HF
Package	SOT-23
Package Information	Bulk Tube
Standard Order Quantity	800

$T_C = 25$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DS}$	100	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Continuous Drain Current	$I_{D@TC=25}$	100	A
	$I_{D@TC=75}$	76	A
	$I_{D@TC=100}$	63	A
Pulsed Drain Current	$I_{DM}$	400	A
Total Power Dissipation( $T_C=25^\circ C$ )	$P_D@TC=25$	85	W
Total Power Dissipation( $T_A=25^\circ C$ )	$P_D@TA=25$	3.4	W
Operating Junction Temperature	$T_J$	-55 to 150	
Storage Temperature	$T_{STG}$	-55 to 150	
Single Pulse Avalanche Energy@ $L=0.1mH$	$E_{AS}$	200	mJ
Avalanche Current@ $L=0.1mH$	$I_{AS}$	35	A







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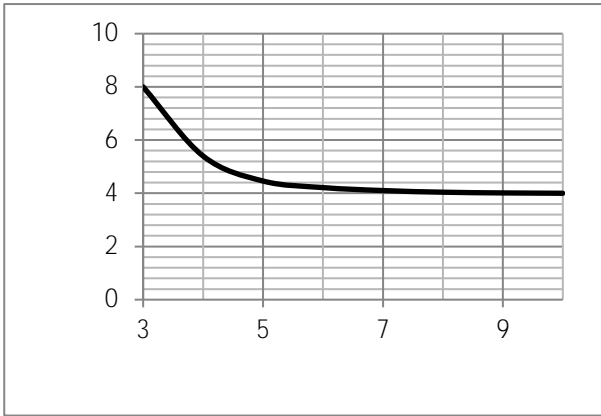


Fig.9 SOA Maximum Safe Operating Area

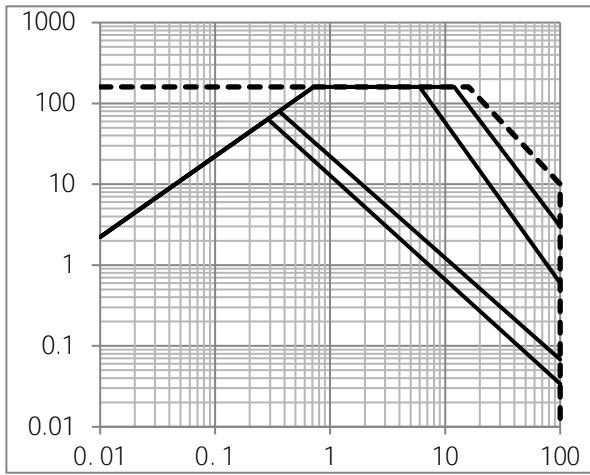
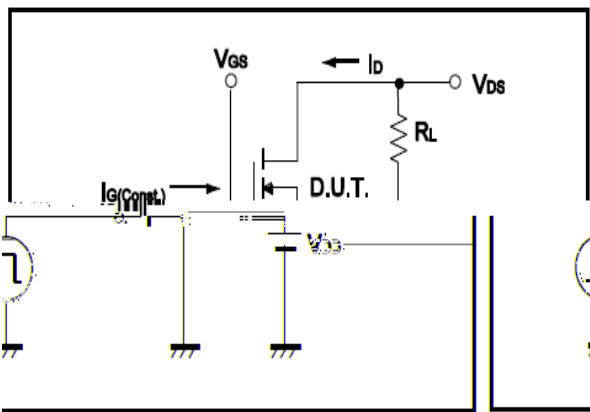


Fig.11 Switching Time Measurement Circuit



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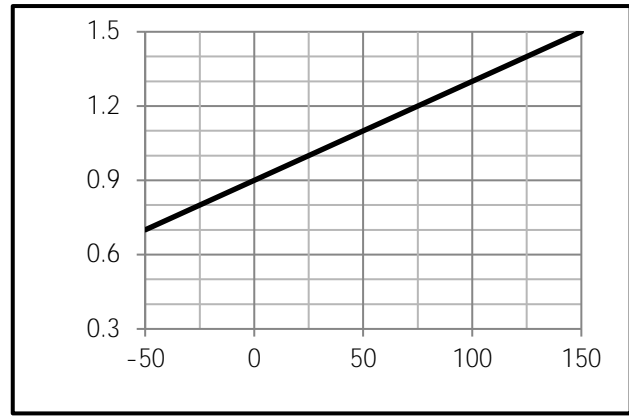


Fig.10 ID-Junction Temperature

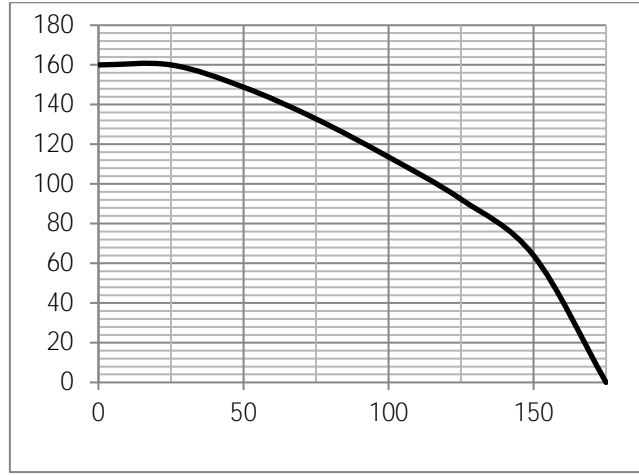


Fig.12 Gate Charge Waveform

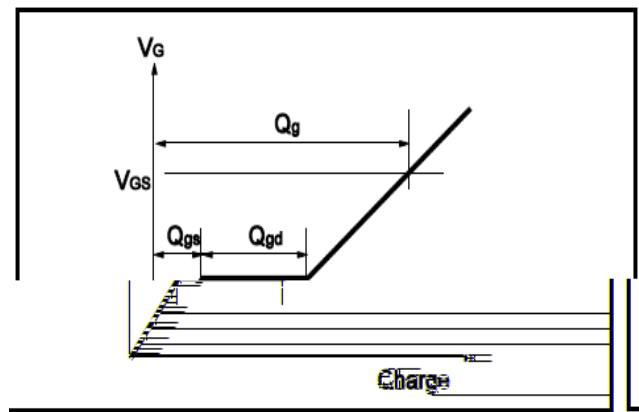




Fig.13 Switching Time Measurement Circuit

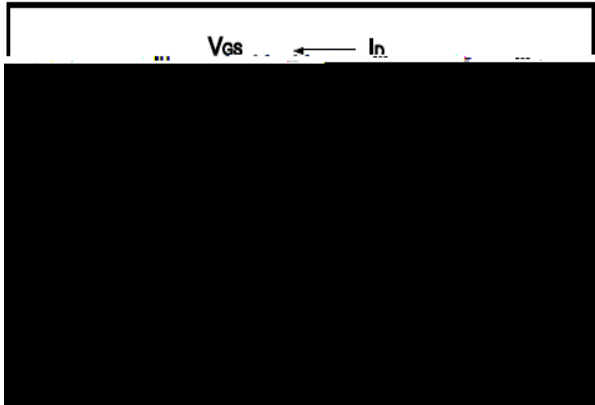


Fig.14 Gate Charge Waveform

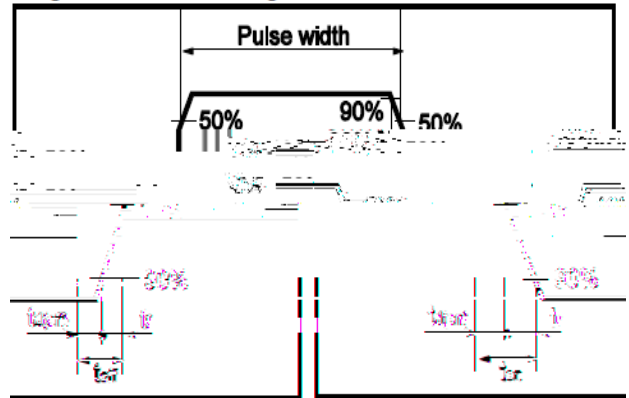


Fig.15 Avalanche Measurement Circuit

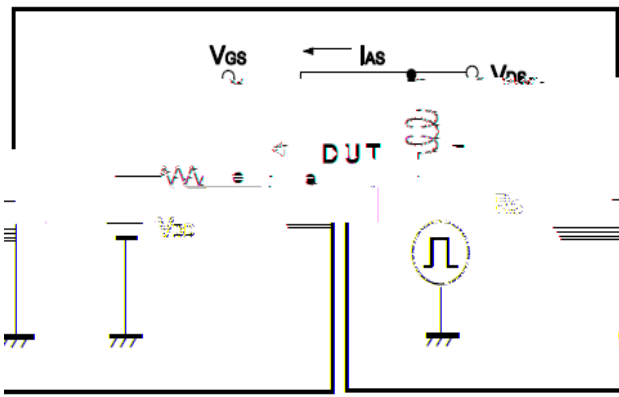


Fig.16 Avalanche Waveform

