



The ZM098N06N combines advanced trench MOSFET technology with a low resistance package to provide extremely low $R_{DS(ON)}$.

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

nd Synchronous Rectifier

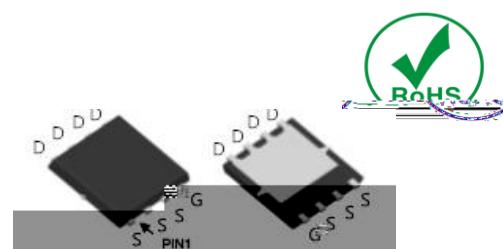
Product Summary



$V_{DS} = 60V$

$R_{DS(ON)} = 10m\Omega$

$I_D = 50A$



DFN5 6

Part NO.	ZM098N06N
Marking	ZM098N06
Packing Information	REEL TAPE
Basic ordering unit (pcs)	3000

$T_C = 25$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current	$I_D @ T_C = 25$	50	A
	$I_D @ T_C = 75$	38	A
	$I_D @ T_C = 100$	31	A
Pulsed Drain Current	I_{DM}	150	A
Total Power Dissipation($T_C = 25^\circ C$)	$P_D @ T_C = 25$	70	W
Total Power Dissipation($T_A = 25^\circ C$)	$P_D @ T_A = 25$	2.8	W
Operating Junction Temperature	T_J	-55 to 150	
Storage Temperature	T_{STG}	-55 to 150	
Avalanche Current	I_{AS}, I_{AR}	40	A



Fig.1 Gate-Charge Characteristics

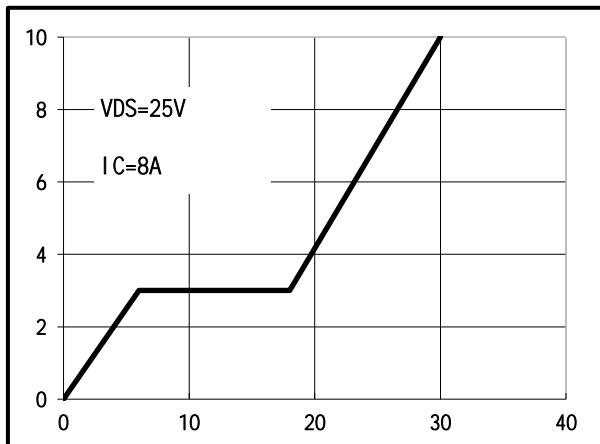


Fig.2 Capacitance Characteristics

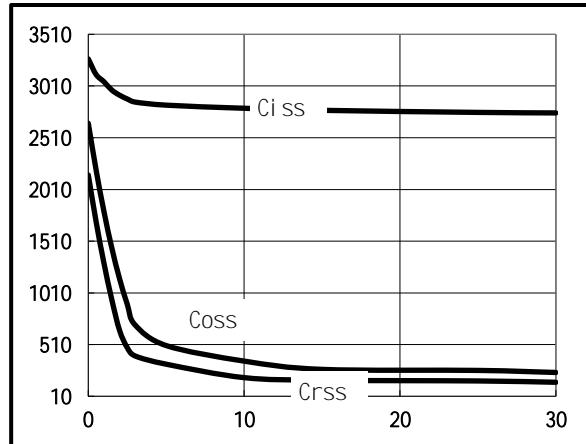


Fig.3 Power Dissipation

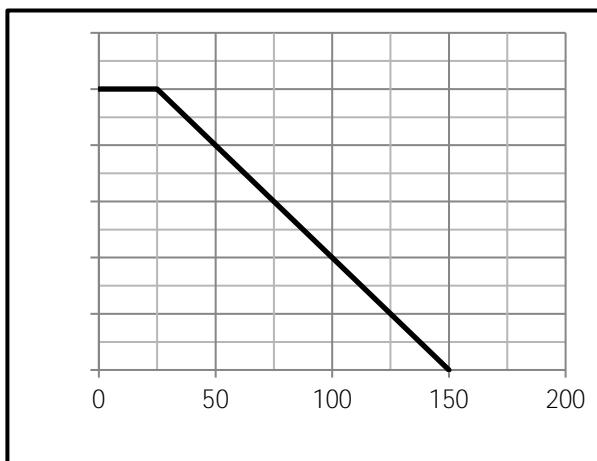


Fig.4 Typical output Characteristics

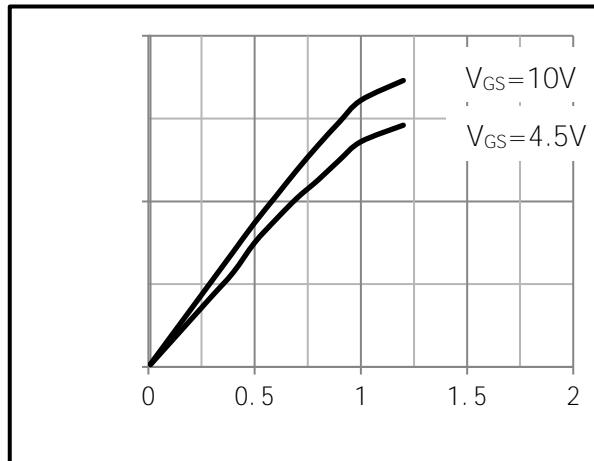


Fig.5 Threshold Voltage V.S Junction Temperature

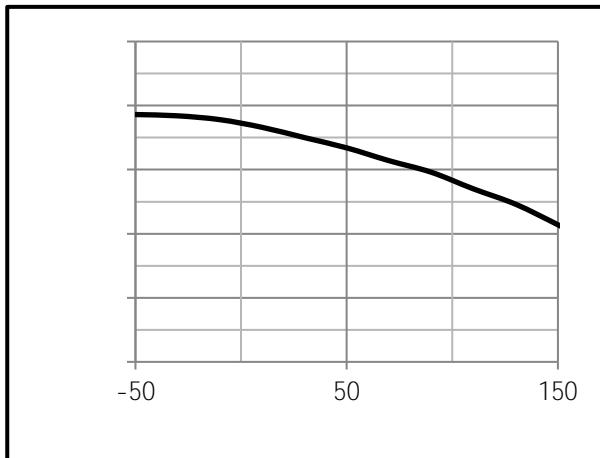


Fig.6 Resistance V.S Drain Current

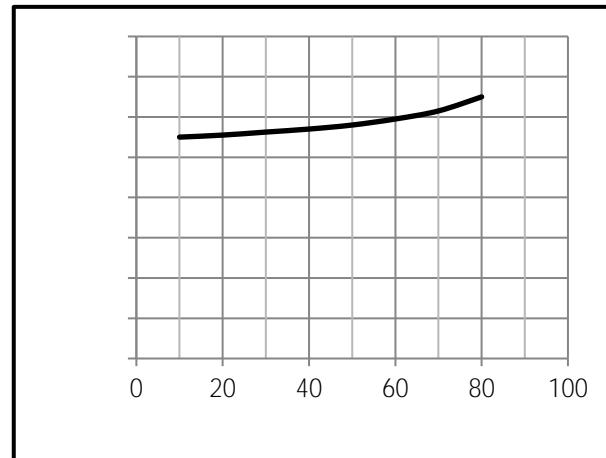




Fig.7 On-Resistance VS Gate Source Voltage

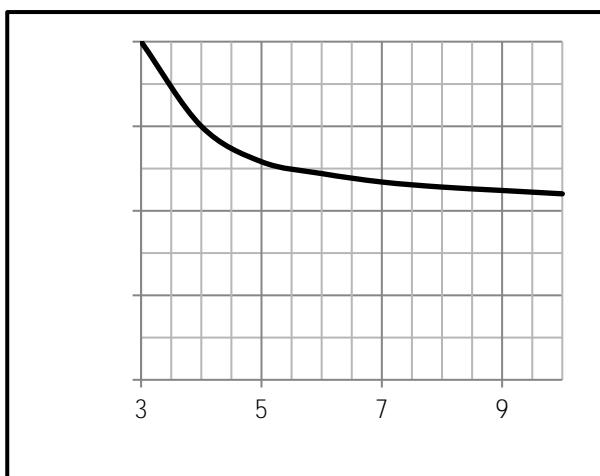


Fig.8 On-Resistance V.S Junction Temperature

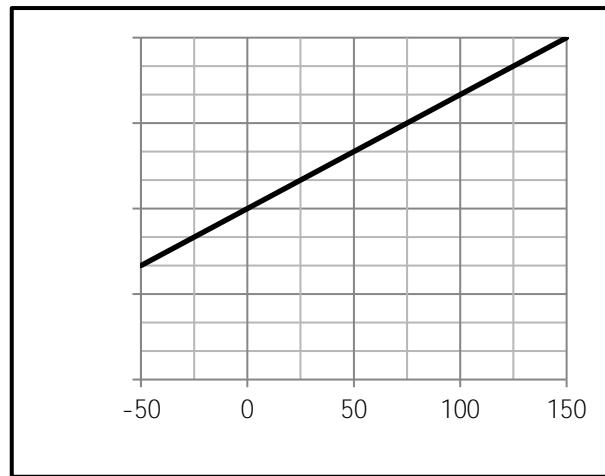


Fig.9 Switching Time Measurement Circuit

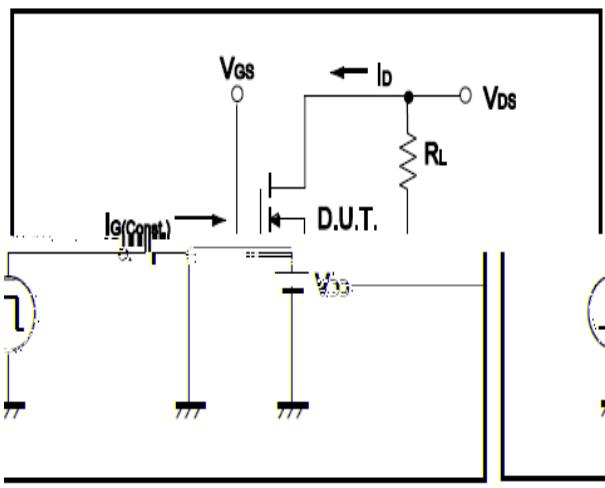


Fig.10 Gate Charge Waveform

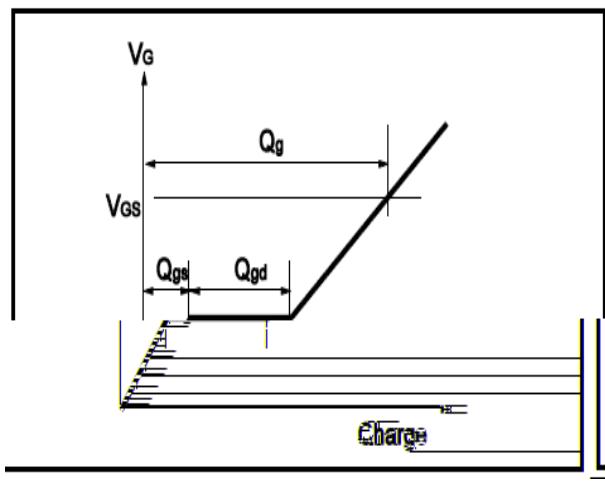


Fig.11 Switching Time Measurement Circuit

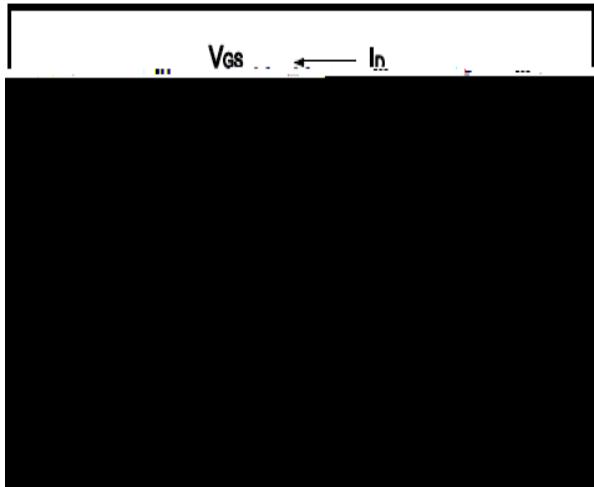


Fig.12 Gate Charge Waveform

