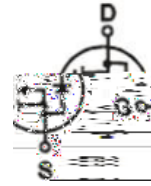
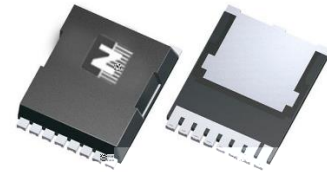


Product Summary

The ZMS035N08HR combines advanced trench MOSFET technology with a low resistance package to provide extremely low $R_{DS(ON)}$.



device constructure
 $R_{DS(ON)}$ to minimize conduction loss



Synchronous Rectification for AC-DC/DC-DC

converter

Oring switches

Power Tools

Part NO.	ZMS035N08HR
Marking	ZMS035N08H
Packing Information	REEL TAPE
Basic ordering unit (pcs)	1000

$T_c = 25$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	80	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current	$I_{D@TC=25}$	160	A
	$I_{D@TC=75}$	121	A
	$I_{D@TC=100}$	100	A
Pulsed Drain Current	I_{DM}	480	A
Total Power Dissipation	$P_D@TC=25$	112	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}	125	mJ

Thermal resistance

Parameter	Symbol	Min.	Typ.	Max.	Unit
Thermal resistance, junction - case	R_{thJC}	-	-	0.9	° C/W
Thermal resistance, junction - ambient	R_{thJA}	-	-	30	° C/W
Soldering temperature, wavesoldering for 10s	T_{sold}	-	-	265	° C

Electrical Characteristics

Parameter	Symbol	Condition	Min.	Typ	Max.	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS} = 0V, I_D = 250\mu A$	80			V
Gate Threshold Voltage	$V_{GS(TH)}$	$V_{GS} = V_{DS}, I_D = 250\mu A$	2		4	V
Drain-Source Leakage Current	I_{DSS}	$V_{DS} = 80V, V_{GS} = 0V$			1.0	μA
Gate- Source Leakage Current	I_{GSS}	$V_{GS} = \pm 20V, V_{DS} = 0V$			100	nA
Static Drain-source On Resistance		$V_{GS} = 10V, I_D = 30A$				
Forward Transconductance	g_{FS}	$V_{DS} = 10V, I_D = 40A$				
Source-drain voltage	V_{SD}	$I_S = 30A$				

Capacitance

Parameter	Symbol	Condition	Min.	Typ	Max.	Unit
Input capacitance	C_{iss}	$f = 1MHz$	-	3300	-	pF
Output capacitance	C_{oss}		-	1890	-	
Reverse transfer capacitance	C_{rss}		-	210	-	

Gate Charge characteristics ($T_a = 25$)

Parameter	Symbol	Condition	Min.	Typ	Max.	Unit
Total gate charge	Q_g	$V_{DD} = 30V$	-	58	-	nC
Gate - Source charge	Q_{gs}	$I_D = 30A$	-	16	-	
Gate -		$V_{GS} = 10V$				

