



Product Summary

The ZMS030N06HP 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

fast switching

Synchronous Rectification for AC-DC/DC-DC converter

Oring switches

Power Tools



m PJ

I nB M

c QJ



i H	gm]M] JP
g	gm]M] JP
c	BULK TUBE
B	500

$T_c = 25$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DS}$	60	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Continuous Drain Current	$I_{D@TC=25}$	150	A
	$I_{D@TC=75}$	114	A
	$I_{D@TC=100}$	94	A
Pulsed Drain Current	$I_{DM}$	400	A
Total Power Dissipation(TC=25 )	$P_{D@TC=25}$	150	W
Operating Junction Temperature	$T_J$	-55 to 150	
Storage Temperature	$T_{STG}$	-55 to 150	
Single Pulse Avalanche Energy	$E_{AS}$	1200	mJ



**Thermal resistance**

Parameter	Symbol	Min.	Typ.	Max.	Unit
Thermal resistance, junction - case	R <sub>thJC</sub>	-	-	0.75	° C/W
Thermal resistance, junction - ambient	R <sub>thJA</sub>	-	-	70	° C/W
Soldering temperature, wavesoldering for 10s	T <sub>sold</sub>				



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