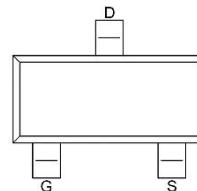
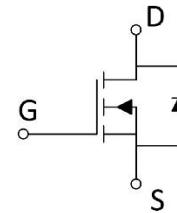
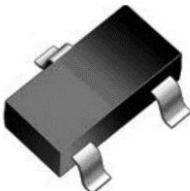


## N-Channel Enhancement Mode MOSFET

## Features

- $V_{DS}=30V, I_D=5.8A$
- $R_{DS(ON)}=30m\Omega$  (TYP.)  $V_{GS}=10V$
- Reliable and Rugged
- Avalanche Rated
- Low On-Resistance
- 

SOT23-3L



## Applications

- Load Switch
- Power management in portable/desktop PCs
- DC/DC conversiong

## Ordering Information

Device	package	Device Marking	Package Qty.
ZM3404	SOT-23	X4/R4	3000/PCS
ZM3404	SOT23-3L	A4/R4	3000/PCS

Absolute Maximum Ratings ( $T_C=25^\circ C$ ,unless otherwise noted)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	$V_{DS}$	30	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Continuous Drain Current	$I_D$	5.8	A
Pulesd Drain Current	$I_{DM}$	30	A
Maximum Power Dissipation	$P_D$	0.35	W
Operating,Storage Temperature Range	$T_J, T_{STG}$	-55~150	$^\circ C$
Thermal Resistance,Junction-to-Ambient	$R_{\theta JA}$	357	$^\circ C / W$

## Electrical Characteristics

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Drain-Source Breakdown Voltage	$BV_{DSS}$	$V_{GS}=0V, I_D=250\mu A$	30	-	-	V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS}=24V, V_{GS}=0V$	-	-	1	$\mu A$
Gate -Source Leakage Current	$I_{GSS}$	$V_{GS}=\pm 12V, V_{DS}=0V$	-	-	$\pm 100$	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu A$	0.6	0.85	1.4	V
Drain-Source On-stage Resistance	$R_{DS(ON)}$	$V_{GS}=10V, I_D=5.8A$	-	35	55	$m\Omega$
		$V_{GS}=4.5V, I_D=5A$	-	39	70	
Body Diode Forward Voltage	$V_{SD}$	$V_{GS}=0V, I_{SD}=1A$	-	-	1	V

## Dynamic Characteristics

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Input capacitance	$C_{iss}$	$V_{DS}=15V$	-	-	820	pF
Output capacitance	$C_{oss}$		-	118	-	
Reverse transfer capacitance	$C_{rss}$		-	85	-	
Gate Resistance	$R_g$	$f=1MHz$	-	1.5	-	$\Omega$
Total Gate Charge	$Q_g$	$V_{DS}=15V$	-	4.34	-	nC
Gate Source Charge	$Q_{gs}$		-	0.6	-	
Gate Drain Charge	$Q_{gd}$		-	1.38	-	
Turn-on delay Time	$t_{d(on)}$	$V_{GS}=10V$	-	-	6.5	ns
Rise time	$t_r$		-	3.1	-	
Turn-off delay Time	$t_{d(off)}$		-	15.1	-	
Fall time	$t_f$		-	2.7	-	

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