

### Features

- High Power and current handing capability
- Lead free product is acquired
- Surface Mount Package
- Available in SOT23 Package

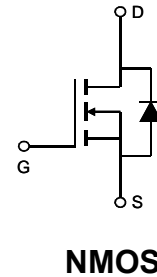
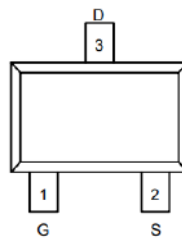
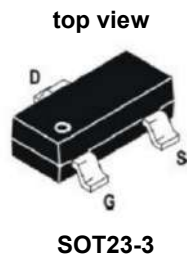
### Applications

- PWM applications
- Load switch
- Power management

### Product Summary



$V_{DS}$	30	V
$R_{DS(on), Typ @ V_{GS}=10 V}$	18	m $\Omega$
$I_D$	6.5	A



### Absolute Maximum Ratings(Ta=25°C)

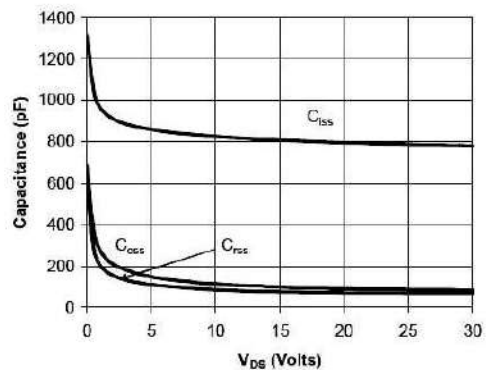
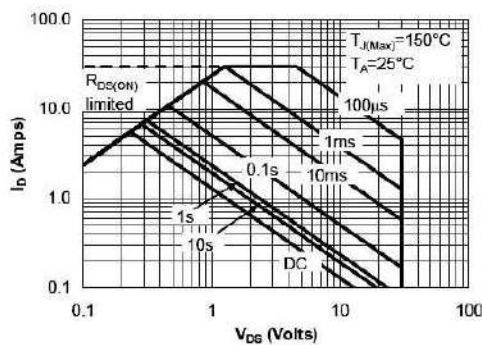
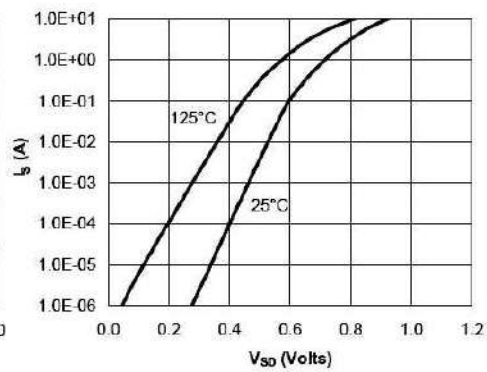
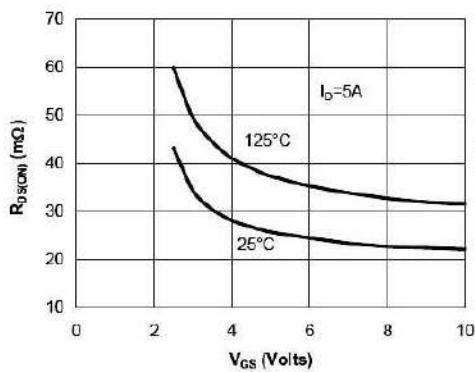
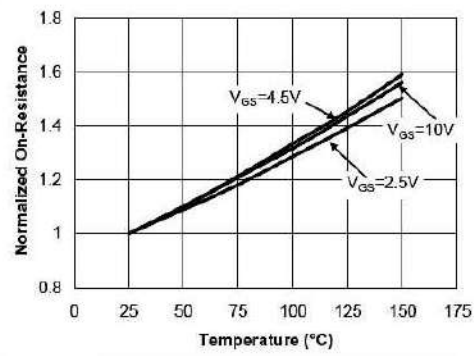
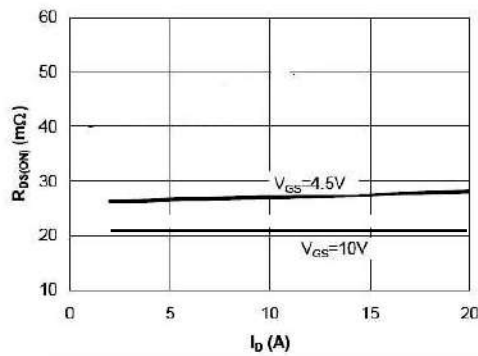
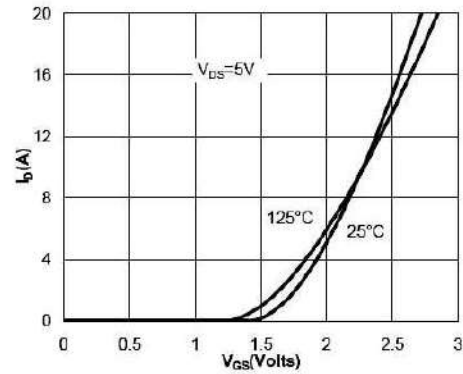
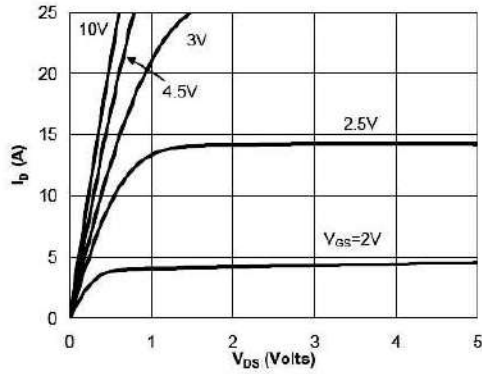
参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage	$V_{DS}$	30	V
Drain Current – Continuous	$I_D$	5.8	A
Drain Current- Continuous	$I_D(T_a=70^{\circ}C)$	4.2	A
Pulsed Drain Current	$I_{DM}$	34	A
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Total Power Dissipation	$P_D$	1.4	W
Total Power Dissipation	$P_D(T_a=70^{\circ}C)$	1.0	W
Operating and Storage Junction Temperature Range	$T_J, T_{STG}$	-55 to 150	$^{\circ}C$



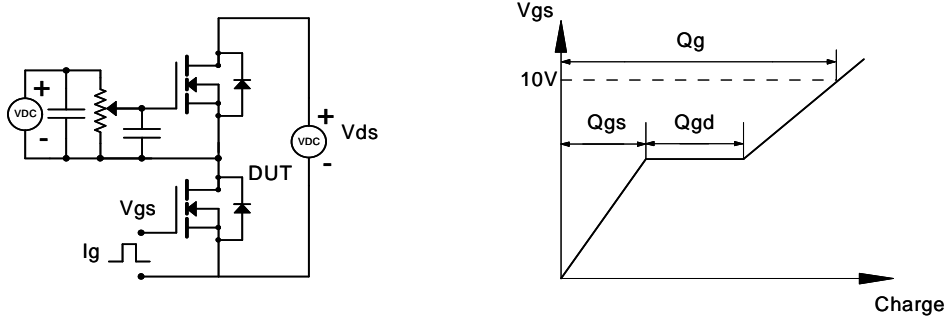
## Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions		最小值 Min	典型值 Typ	最大值 Max	单位 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	$\mu A$
		$V_{DS}=24V$ $T_J=55^\circ C$	$V_{GS}=0V$			5	$\mu A$
Gate-Body Leakage.	$I_{GSS}$	$V_{GS}=\pm 20V$	$V_{DS}=0V$			$\pm 0.1$	$\mu A$
On-State Drain Current	$I_{D(on)}$	$V_{GS}=4.5V$	$V_{DS}=5V$	30			A
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$	$I_D=250\mu A$	1.2	1.6	2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)(1)}$	$V_{GS}=10V$	$I_D=5.8A$		18	22	m $\Omega$
	$R_{DS(on)(2)}$	$V_{GS}=10V$ $T_J=125^\circ C$	$I_D=5.8A$			38	
	$R_{DS(on)(3)}$	$V_{GS}=4.5V$	$I_D=5A$		27	34	
Forward Transconductance	$g_{FS}$	$V_{DS}=5V$	$I_D=5A$	8.5			S
Drain-Source Diode Forward Voltage	$V_{SD}$	$V_{GS}=0V$	$I_S=1A$		0.77	1	V
Input Capacitance	$C_{iss}$	$V_{DS}=15V$ $f=1MHz$	$V_{GS}=0V$		345	690	pF
Output Capacitance	$C_{oss}$				55		
Reverse Transfer Capacitance	$C_{rss}$				32		
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=15V$	$R_L=2.7\Omega$ $R_{GEN}=6\Omega$		2.8		ns
Turn-On Rise Time	$t_r$				7.2		
Turn-Off Delay Time	$t_{d(off)}$				15.8		
Turn-Off Fall Time	$t_f$				4.6		

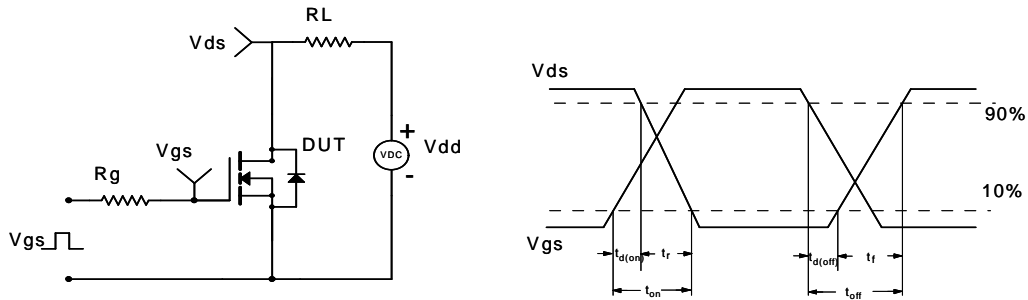
### TYPICAL ELECTRICAL AND THERMAL CHARACTERISTICS



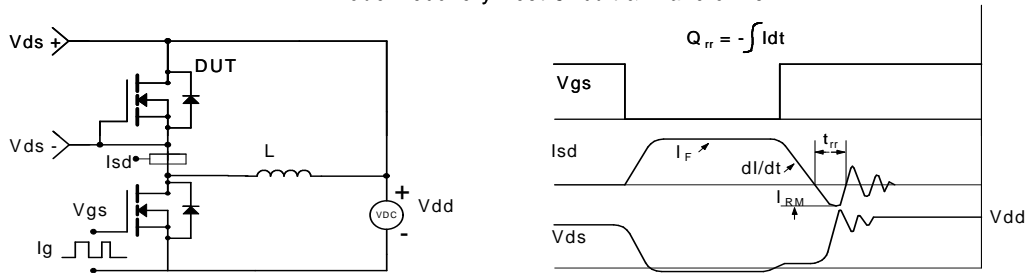
### Gate Charge Test Circuit & Waveform



### Resistive Switching Test Circuit & Waveforms

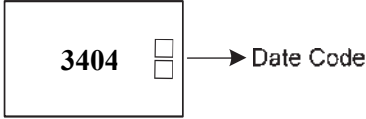


### Diode Recovery Test Circuit & Waveforms



## Ordering and Marking Information

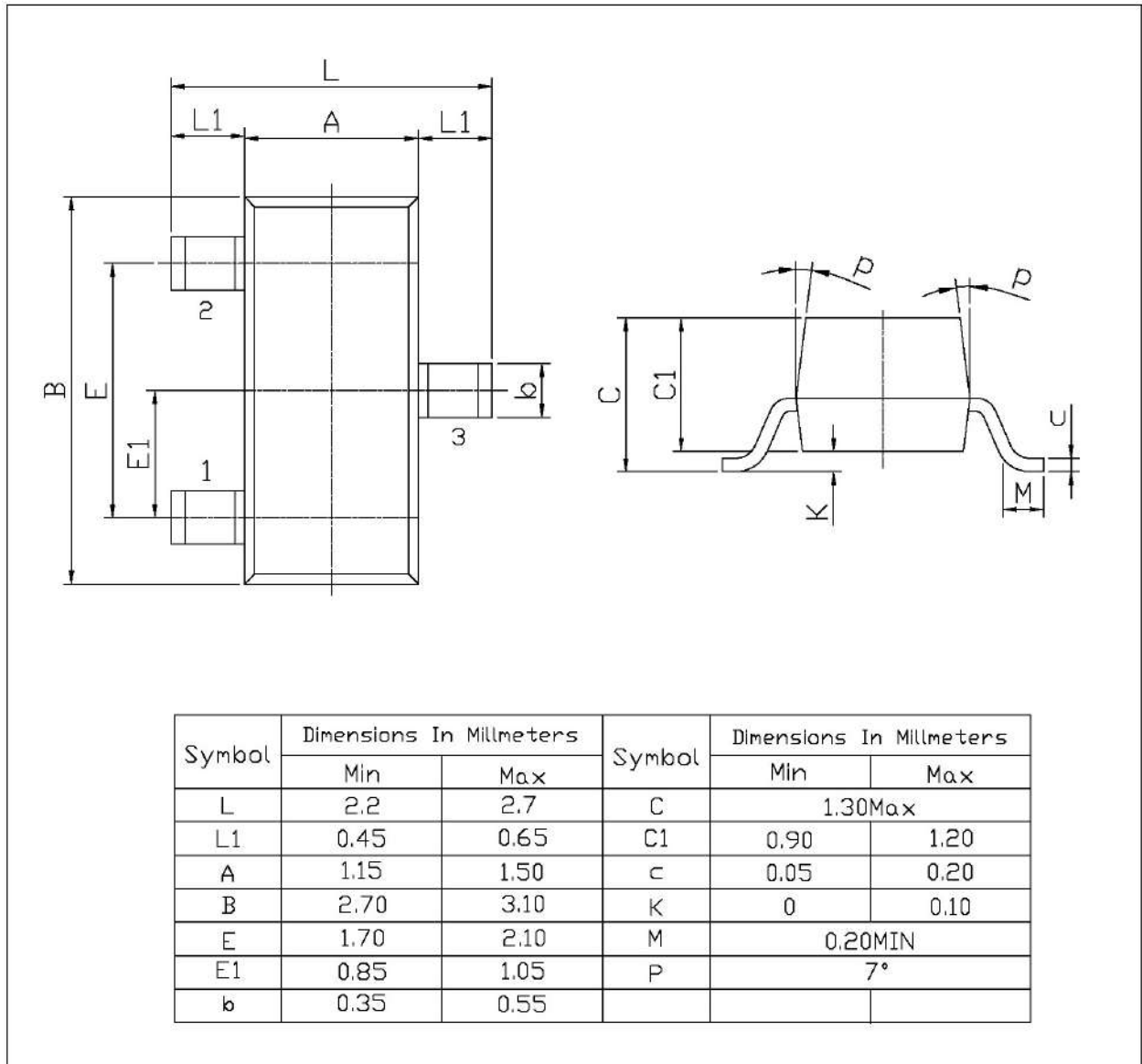
Ordering Device No.	Marking	Package	Packing	Quantity
ASDM3404ZA-R	3404	SOT23	Tape&Reel	3000/Reel

PACKAGE	MARKING
SOT23-3	

## PACKAGE INFORMATION

SOT-23

单位: mm



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