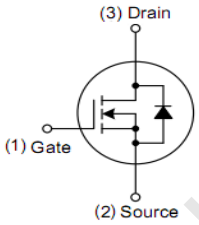
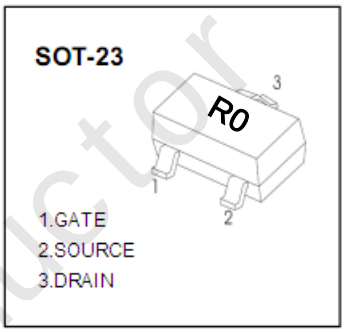
特点/Features：

1、 电流能力强；
2、 导通电阻低；





用途/Applications：

用于一般开关和低压电源电路。

极限参数/Absolute maximum ratings(Ta=25℃)

参数/Parameter	符号/ Symbol	数值/Value	单位/Unit
漏极-源极电压/Drain-Source Voltage	V_{DS}	30	V
栅极-源极电压/Gate-Source Voltage	V_{GS}	±12	V
漏极电流（持续）/Continuous Drain Current	I_D	5.8	A
耗散功率/Power Dissipation	P_D	0.35	W
热阻/ Thermal Resistance Junction to Ambient	$R_{\theta JA}$	350	℃/mW
结温/Junction Temperature	T_j	150	℃
储存温度/Storage Temperature	T_{stg}	-55～150	℃

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电性能参数/Electrical characteristics (Ta=25℃)

参数	符号	测试条件	最小值	典型值	最大值	单位
静态/Static Characteristics						
源极-漏极击穿电压	$V_{BR(DSS)}$	V_{GS}=0V, I_D=250μA	30			V
栅极开启电压	$V_{GS(th)}$	I_D=250μA, V_{GS}=V_{DS}	0.7		1.4	V
栅极漏电流	I_{GSS}	V_{GS}=±12V, V_{DS}=0V			±100	nA
零栅压漏极电流	I_{DSS}	V_{GS}=0V, V_{DS}=24V			1	μA
漏极源极导通电阻③	$R_{DS(ON)}$	V_{GS}=10V, I_D=5.8A			35	mΩ
		V_{GS}=4.5V, I_D=5A			40	
		V_{GS}=2.5V, I_D=4A			52	
正向跨导①	g_{fs}	V_{DS}=5V, I_D=5A	8			S
动态/Dynamic Characteristics						
输入电容②	C_{iss}	V_{DS}=15V, V_{GS}=0V, f=1MHz			1050	pF
输出电容②	C_{oss}			99		
反向传输电容②	C_{rss}			77		
栅极电阻	Rg	V_{DS}=0V, V_{GS}=0V, f=1MHz			3.6	Ω
开关参数/Switching Characteristics						
开启延时②	$t_{d(on)}$	V_{DS}=15V, V_{GS}=10V, R_{GEN}=3Ω, R_L=2.7Ω			5	ns
上升时间②	t_r				7	ns
关闭延时②	$t_{d(off)}$				40	ns
下降延时②	t_f				6	ns
漏极-源极二极管参数/Drain-source Body Diode Characteristics						
二极管正向压降①	V_{SD}	I_S=1A, V_{GS}=0V			1	V

注：① 脉冲测试脉冲宽度≤300μS, 占空比≤2%;

② 这些参数未通过验证;

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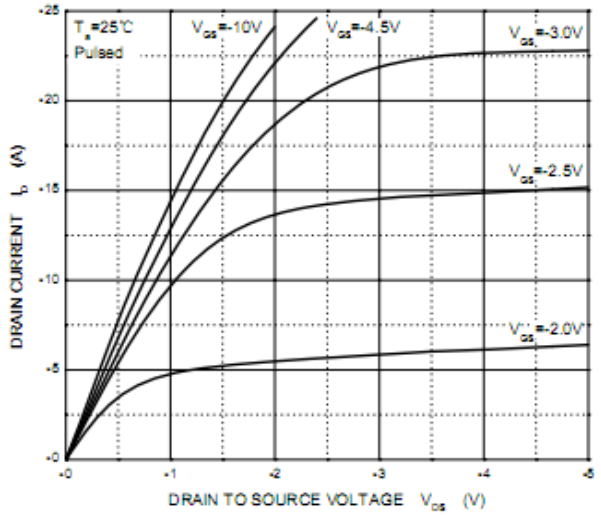
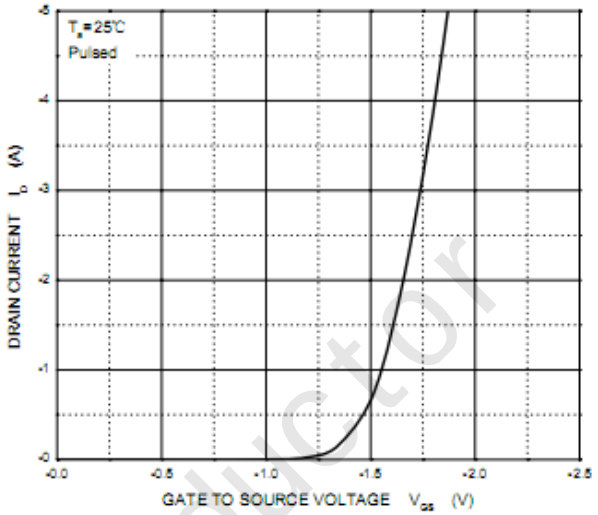
典型特性曲线图/Typical Characteristics

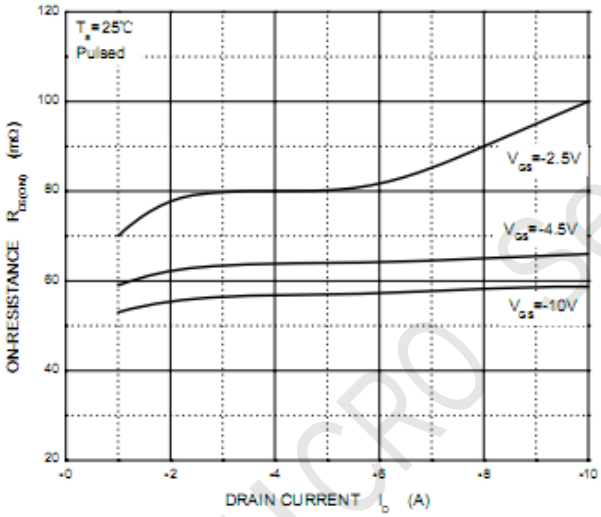
Output Characteristics



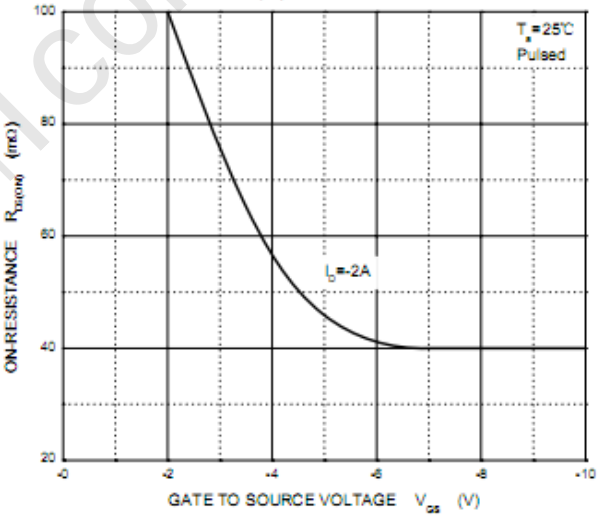
Transfer Characteristics



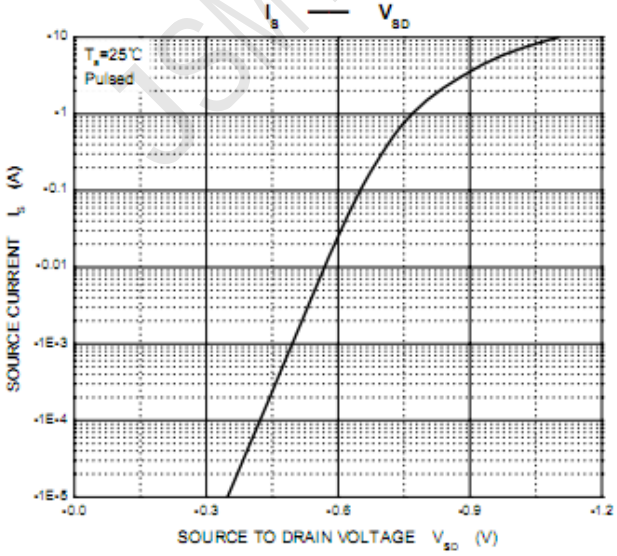
$R_{DS(ON)}$ — I_D



$R_{DS(ON)}$ — V_{GS}



I_S — V_{SD}



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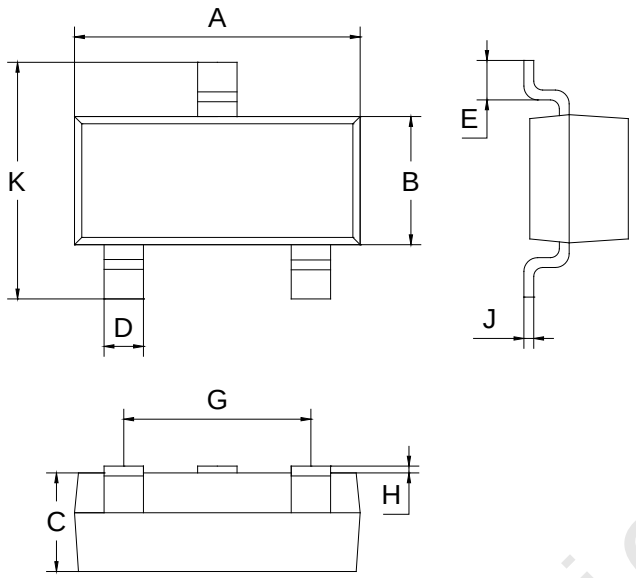
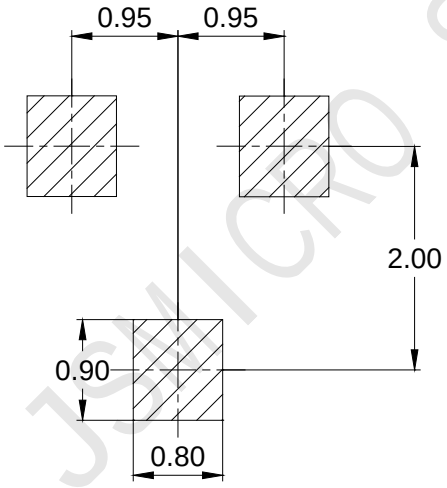
尺寸图/PACKAGE OUTLINE

Plastic surface mounted package SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit: mm

包装信息/PACKAGE INFORMATION

Part No.	Package	Shipping
JSM3400	SOT-23	3000pcs / Tape & Reel

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