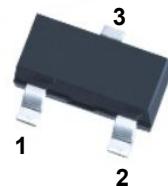


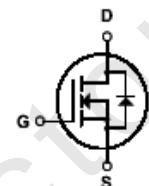
**描述 / Descriptions**

SOT-23 塑封封装 N 沟道 MOS 场效应管。  
 N- CHANNEL MOSFET in a SOT-23 Plastic Package.


 PIN1 : G  
 PIN 2 : S  
 PIN 3 : D

**特征 / Features**

芯片采用超高密度圆胞设计技术， $R_{DS(ON)}$ 导通电阻小，SOT-23 封装。  
 Super high dense cell design for low  $R_{DS(ON)}$ , SOT-23 package.


**用途 / Applications**

电池管理，高速开关，低功率 DC-DC 转换。  
 Battery management, High speed switch, low power DC to DC converter.

**印章代码 / Marking**

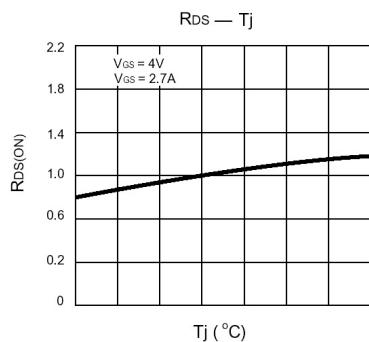
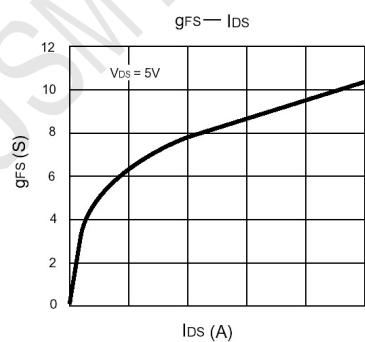
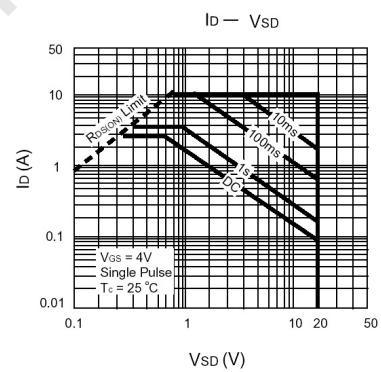
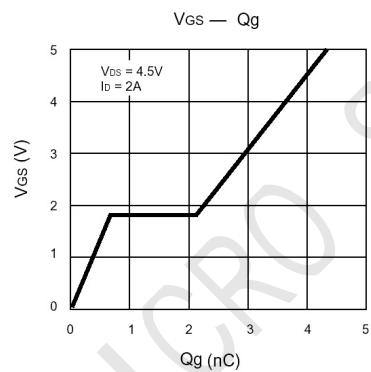
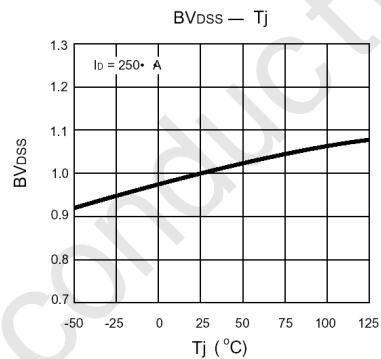
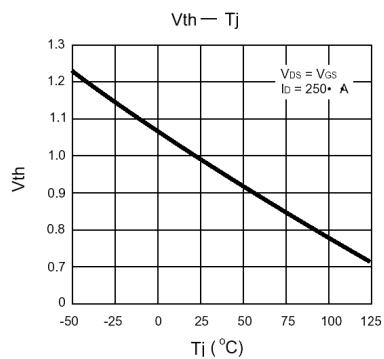
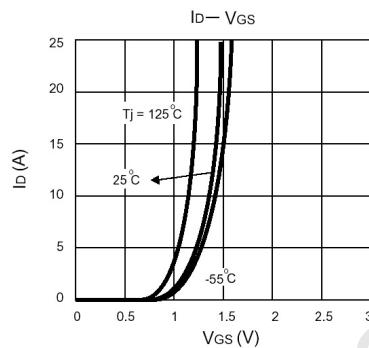
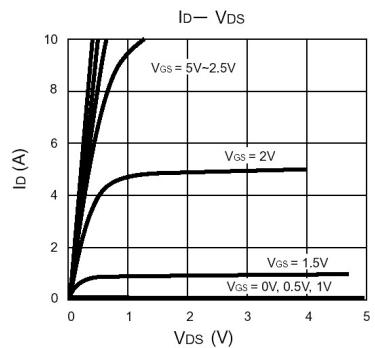
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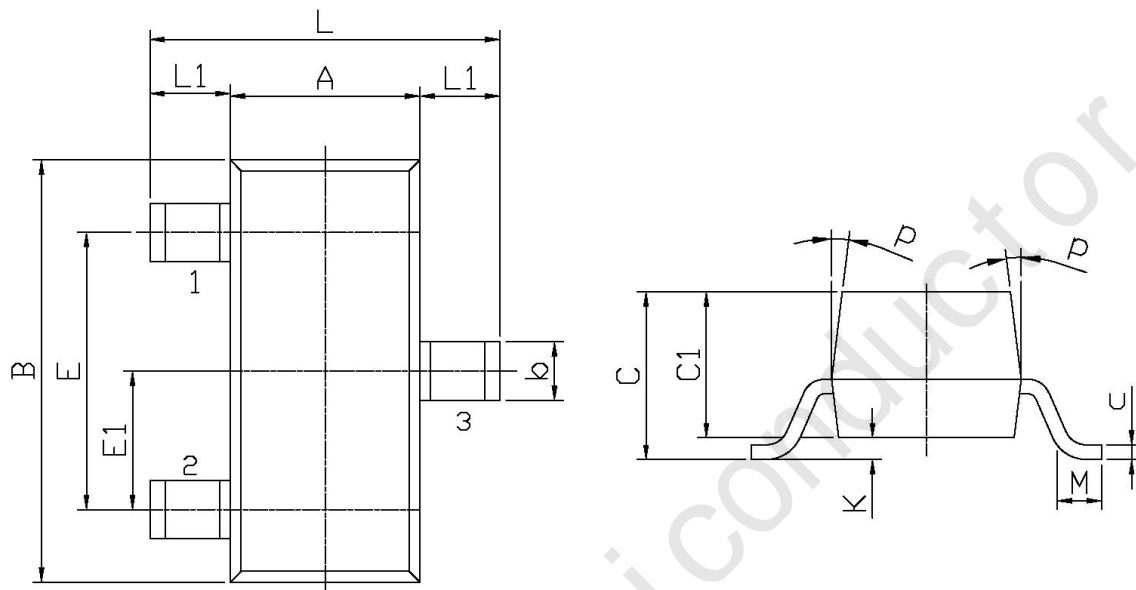
**极限参数 / Absolute Maximum Ratings( $T_a=25^\circ C$ )**

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage	$V_{DSS}$	20	V
Gate-Source Voltage	$V_{GSS}$	$\pm 8$	V
Drain Current – Continuous	$I_D$	3.0	A
Pulsed Drain Current	$I_{DM}$	10	A
Continuous Source Current	$I_S$	0.95	A
Power Dissipation	$P_D$	0.9	W
Storage Temperature Range	$T_{stg}$	-55~150	°C

## 电性能参数 / 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	$V_{(BR)DSS}$	$V_{GS}=0$ $I_D=10\mu A$	20			V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{GS}=0$ $V_{DS}=20V$			1.0	$\mu A$
Gate–Body Leakage.	$I_{GSS}$	$V_{GS}=\pm 8V$ $V_{DS}=0V$			$\pm 100$	nA
Static Drain–Source On–Resistance	$R_{DS(on)1}$	$V_{GS}=4.5V$ $I_D=3.6A$			60	$m\Omega$
	$R_{DS(on)2}$	$V_{GS}=2.5V$ $I_D=3.1A$			115	$m\Omega$
Forward Transconductance	$g_{FS}$	$V_{DS}=5V$ $I_D=3.6A$		8		S
Drain–Source Diode Forward Voltage	$V_{SD}$	$V_{GS}=0V$ $I_D=1.25A$		0.75	1.2	V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=50\mu A$	0.50		1.0	V
State Drain Current	$I_{D(on)}$	$V_{DS}=5V$ $V_{GS}=2.5V$	4			A
Turn–On Delay Time	$t_{d(on)}$	$V_{DD}=10V$ $V_{GEN}=4.5V$ $R_{GEN}=6\Omega$		7		ns
Turn–On Rise Time	$t_r$			55		
Turn–Off Delay Time	$t_{d(off)}$			15		
Turn–Off Fall Time	$t_f$			10		

**电参数曲线图 / Electrical Characteristic Curve**


**外形尺寸图 / Package Dimensions**
**SOT-23**
**单位: mm**


Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
L	2.2	2.7	C	1.30	Max
L1	0.45	0.65	C1	0.90	1.20
A	1.15	1.50	c	0.05	0.20
B	2.70	3.10	K	0	0.10
E	1.70	2.10	M	0.20	MIN
E1	0.85	1.05	P	7°	
b	0.35	0.55			