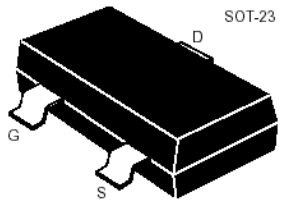
桂林斯壯微電子有限責任公司
Guilin Strong Micro-Electronics Co.,Ltd.

GM2301

SOT-23 場效應晶體管(SOT-23 Field Effect Transistors)



P-Channel Enhancement-Mode MOS FETs

P 沟道增强型 MOS 场效应管

■MAXIMUM RATINGS 最大額定值

Characteristic 特性參數	Symbol 符號	Max 最大值	Unit 單位
Drain-Source Voltage 漏極-源極電壓	BV_{DSS}	-20	V
Gate- Source Voltage 栅極-源極電壓	V_{GS}	±10	V
Drain Current (continuous) 漏極電流-連續	I_D	-2.8	A
Drain Current (pulsed) 漏極電流-脉冲	I_{DM}	-10	A
Total Device Dissipation 總耗散功率 T_A=25℃環境溫度爲 25℃	P_D	900	mW
Junction 結溫	T_J	150	℃
Storage Temperature 儲存溫度	T_{stg}	-55to+150	℃

■DEVICE MARKING 打標

GM2301=A1

■ELECTRICAL CHARACTERISTICS 電特性

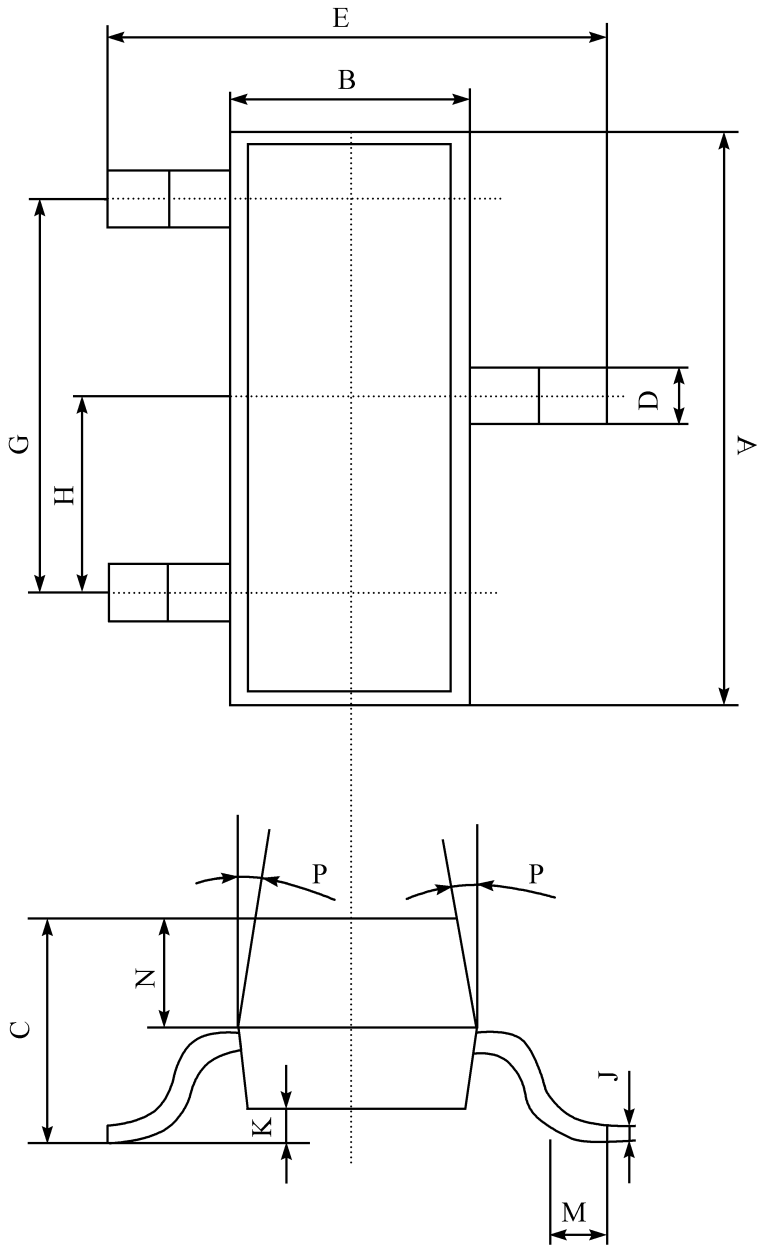
(T_A=25℃ unless otherwise noted 如無特殊說明，溫度爲 25℃)

Characteristic 特性參數	Symbol 符號	Min 最小值	Typ 典型值	Max 最大值	Unit 單位
Drain-Source Breakdown Voltage 漏極-源極擊穿電壓(I_D = -250uA,V_{GS}=0V)	BV_{DSS}	-20	—	—	V
Gate Threshold Voltage 柵極開启電壓(I_D = -250uA,V_{GS}= V_{DS})	$V_{GS(th)}$	-0.5	—	-1.5	V
Diode Forward Voltage Drop 内附二極管正向壓降(I_S= -0.75A,V_{GS}=0V)	V_{SD}	—	—	-1.5	V
Zero Gate Voltage Drain Current 零柵壓漏極電流(V_{GS}=0V, V_{DS}= -16V) (V_{GS}=0V, V_{DS}= -16V, T_A=55℃)	I_{DSS}	—	—	-1 -10	uA
Gate Body Leakage 柵極漏電流(V_{GS}=±10V, V_{DS}=0V)	I_{GSS}	—	—	±100	nA
Static Drain-Source On-State Resistance 静态漏源導通電阻(I_D= -2.8A,V_{GS}= -4.5V)	$R_{DS(ON)}$	—	—	100	mΩ
Static Drain-Source On-State Resistance 静态漏源導通電阻(I_D= -2A,V_{GS}= -2.5V)	$R_{DS(ON)}$	—	—	120	mΩ
Input Capacitance 輸入電容 (V_{GS}=0V, V_{DS}= -10V,f=1MHz)	C_{ISS}	—	600	—	pF
Output Capacitance 輸出電容 (V_{GS}=0V, V_{DS}= -10V,f=1MHz)	C_{OSS}	—	120	—	pF
Turn-ON Time 开启時間 (V_{DS}= -10V, I_D= -2.8A, R_{GEN}=6Ω)	$t_{(on)}$	—	8	—	ns
Turn-OFF Time 关断時間 (V_{DS}= -10V, I_D= -2.8A, R_{GEN}=6Ω)	$t_{(off)}$	—	60	—	ns

Pulse Width≤300 μ s; Duty Cycle≤2.0%

GM2301

■DIMENSION 外形封裝尺寸



序號	數值及公差
A	2.90±0.10
B	1.30±0.10
C	1.00±0.10
D	0.40±0.10
E	2.40±0.20
G	1.90±0.10
H	0.95±0.05
J	0.13±0.05
K	0.00-0.10
M	≥0.2
N	0.60±0.10
P	7±2°