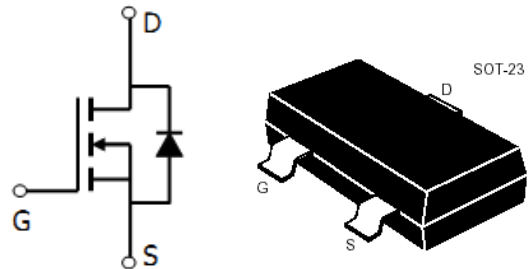




GM2306

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



N-Channel Enhancement-Mode MOS FETs

N 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 柵極-源極電壓	V_{GS}	± 10	V
Drain Current (continuous) 漏極電流-連續	I_D	4	A
Drain Current (pulsed) 漏極電流-脉冲	I_{DM}	15	A
Total Device Dissipation 總耗散功率 $T_A=25^{\circ}C$ 環境溫度為 $25^{\circ}C$	P_D	1200	mW
Junction 結溫	T_J	150	$^{\circ}C$
Solder Temperature/Solder Time 焊接溫度/焊接時間	T/t	260/10	$^{\circ}C/S$
Storage Temperature 儲存溫度	T_{stg}	-55to+150	$^{\circ}C$

■DEVICE MARKING 打標

GM2306=A6

GM2306

ELECTRICAL CHARACTERISTICS 電特性

(TA=25°C unless otherwise noted 如無特殊說明，溫度為 25°C)

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 柵極開啓電壓(I _D =250uA, V _{GS} = V _{DS})	V _{GS(th)}	0.5	—	1.5	V
Diode Forward Voltage Drop 內附二極管正向壓降(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°C)	I _{DSS}	—	—	1 10	uA
Gate Body Leakage 柵極漏電流(V _{GS} =±8V, V _{DS} =0V)	I _{GSS}	—	—	±100	nA
Static Drain-Source On-State Resistance 靜態漏源導通電阻(I _D = 4A, V _{GS} = 4.5V)	R _{DS(ON)}	—	30	40	mΩ
Static Drain-Source On-State Resistance 靜態漏源導通電阻(I _D = 2A, V _{GS} = 2.5V)	R _{DS(ON)}	—	45	60	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 開啓時間 (V _{DS} = 10V, I _D = 3A, R _{GEN} =6Ω)	t _(on)	—	8	—	ns
Turn-OFF Time 關斷時間 (V _{DS} = 10V, I _D = 3A, R _{GEN} =6Ω)	t _(off)	—	60	—	ns

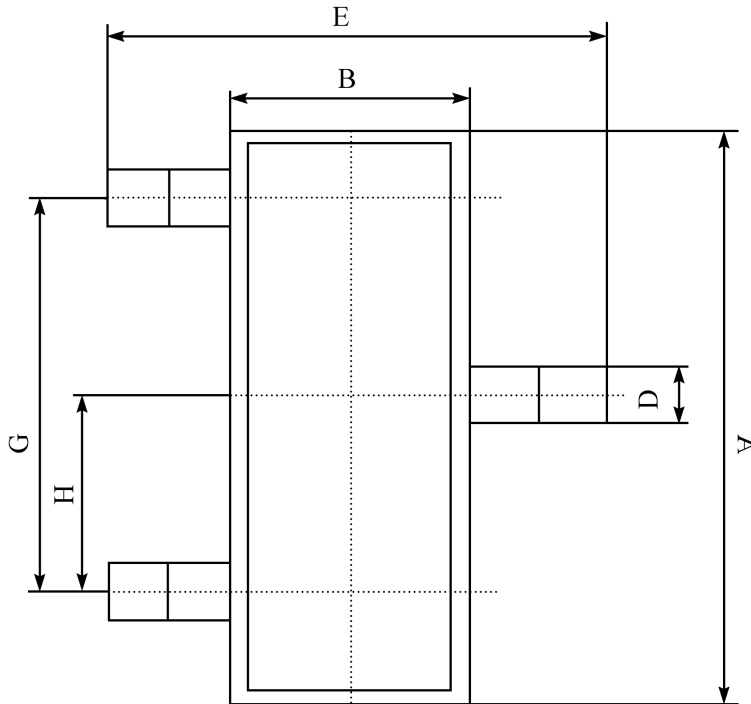
Pulse Width≤300 μs; Duty Cycle≤2.0%



GM2306

■DIMENSION 外形封装尺寸

單位(UNIT): mm



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°

