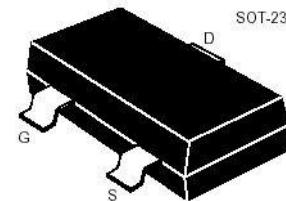


FS2310M

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} | ± 12 | V |
| Drain Current (continuous) 漏極電流-連續 | I_D | 5 | A |
| Drain Current (pulsed) 漏極電流-脈沖 | I_{DM} | 16 | A |
| Total Device Dissipation 總耗散功率 $TA=25^{\circ}\text{C}$ 環境溫度為 25°C | P_D | 1200 | mW |
| Junction 結溫 | T_J | 150 | $^{\circ}\text{C}$ |
| Storage Temperature 儲存溫度 | T_{stg} | -55 to +150 | $^{\circ}\text{C}$ |

■DEVICE MARKING 打標

FS2310M=S10

FS2310M
■ELECTRICAL CHARACTERISTICS 電特性

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

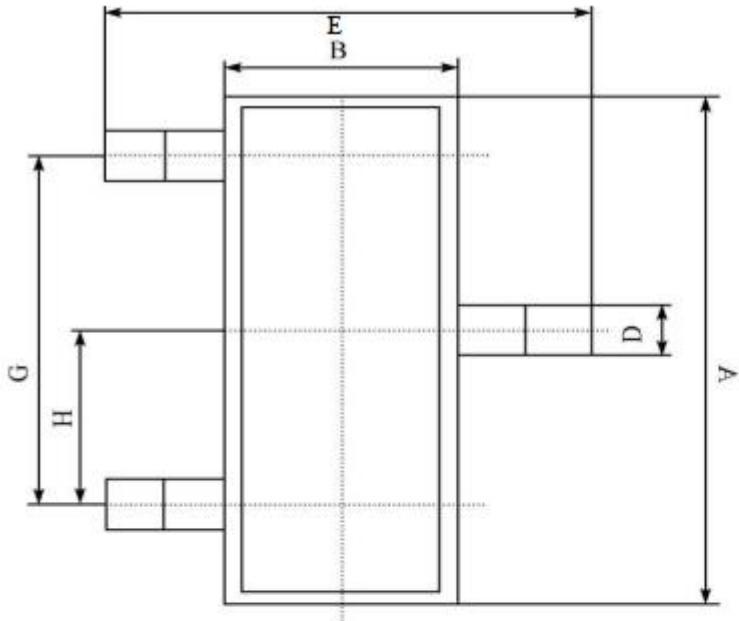
| Characteristic 特性參數 | Symbol 符號 | Min 最小值 | Typ 典型值 | Max 最大值 | Unit 單位 |
|--|---------------------|------------|------------|------------|------------|
| Drain-Source Breakdown Voltage 漏極-源極擊穿電壓(I _D = 250uA, V _{GS} =0V) | BVDSS | 20 | 22 | — | V |
| Gate Threshold Voltage 柵極開啟電壓(I _D =250uA, V _{GS} = V _{DS}) | V _{GS(th)} | 0.5 | — | 1.2 | 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) | I _{DSS} | — | — | 1 | 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 静态漏源導通電阻(I _D = 5A, V _{GS} = 4.5V) | R _{DS(ON)} | — | 25 | 26 | 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)} | — | 28 | 32 | mΩ |
| Static Drain-Source On-State Resistance 静态漏源導通電阻(I _D = 1A, V _{GS} = 1.8V) | R _{DS(ON)} | — | 38 | 46 | mΩ |
| Input Capacitance 輸入電容 (V _{GS} =0V, V _{DS} = 10V, f=1MHz) | C _{ISS} | — | 620 | — | pF |
| Output Capacitance 輸出電容 (V _{GS} =0V, V _{DS} = 10V, f=1MHz) | C _{OSS} | — | 150 | — | pF |
| Turn-ON Time 开启時間(V _{DS} = 10V, I _D = 3A, R _{GEN} =6Ω) | t _(on) | — | 10 | — | ns |
| Turn-OFF Time 关斷時間 (V _{DS} = 10V, I _D = 3A, R _{GEN} =6Ω) | t _(off) | — | 65 | — | ns |

Pulse Width≤300 μ s; Duty Cycle≤2.0%

FS2310M

■ DIMENSION 外形封裝尺寸

單位(UNIT): mm



| 代碼 | 範圍(單位:mm) |
|----|-----------|
| A | 2.80~3.00 |
| B | 1.20~1.40 |
| C | 0.90~1.10 |
| D | 0.30~0.50 |
| E | 2.20~2.60 |
| G | 1.80~2.00 |
| H | 0.90~1.00 |
| J | 0.08~0.18 |
| K | 0.02~0.12 |
| M | ≥0.22 |
| N | 0.50~0.70 |
| P | 6°~10° |

