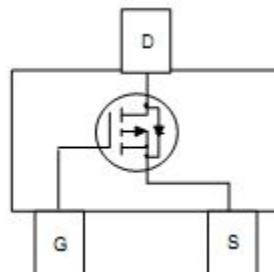


GMS3401A

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}	-30	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	-3.8	A
Drain Current (pulsed) 漏極電流-脈沖	I_{DM}	-12	A
Total Device Dissipation 總耗散功率 $T_A=25^\circ\text{C}$ 環境溫度為 25°C	P_D	1200	mW
Junction 結溫	T_J	150	$^\circ\text{C}$
Solder Temperature/Solder Time 焊接溫度/焊接時間	T/t	260/10	$^\circ\text{C}/\text{S}$
Storage Temperature 儲存溫度	T_{stg}	-55 to +150	$^\circ\text{C}$

■DEVICE MARKING 打標

GMS3401A=SX1



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■ELECTRICAL CHARACTERISTICS 電特性

($T_A=25^\circ\text{C}$ 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($I_D = -250\mu\text{A}, V_{GS}=0\text{V}$)	BV_{DSS}	-30	—	—	V
Gate Threshold Voltage 柵極開啓電壓($I_D = -250\mu\text{A}, V_{GS} = V_{DS}$)	$V_{GS(\text{th})}$	-0.6	—	-1.4	V
Diode Forward Voltage Drop 內附二極管正向壓降($I_S = -1\text{A}, V_{GS}=0\text{V}$)	V_{SD}	—	—	-1	V
Zero Gate Voltage Drain Current 零柵壓漏極電流($V_{GS}=0\text{V}, V_{DS} = -24\text{V}$) ($V_{GS}=0\text{V}, V_{DS} = -24\text{V}, T_A=55^\circ\text{C}$)	I_{DSS}	—	—	-1 -5	μA
Gate Body Leakage 柵極漏電流($V_{GS}=\pm 12\text{V}, V_{DS}=0\text{V}$)	I_{GSS}	—	—	± 100	nA
Static Drain-Source On-State Resistance 静态漏源導通電阻($I_D = -3\text{A}, V_{GS} = -10\text{V}$)	$R_{DS(\text{ON})}$	—	83	95	$\text{m}\Omega$
Static Drain-Source On-State Resistance 静态漏源導通電阻($I_D = -2\text{A}, V_{GS} = -4.5\text{V}$)	$R_{DS(\text{ON})}$	—	110	130	$\text{m}\Omega$
Static Drain-Source On-State Resistance 静态漏源導通電阻($I_D = -1\text{A}, V_{GS} = -2.5\text{V}$)	$R_{DS(\text{ON})}$	—	200	220	$\text{m}\Omega$
Input Capacitance 輸入電容 ($V_{GS}=0\text{V}, V_{DS} = -15\text{V}, f=1\text{MHz}$)	C_{ISS}	—	300	—	pF
Output Capacitance 輸出電容 ($V_{GS}=0\text{V}, V_{DS} = -15\text{V}, f=1\text{MHz}$)	C_{OSS}	—	60	—	pF
Turn-ON Time 开启時間 ($V_{DS} = -15\text{V}, V_{GS} = -10\text{V}, R_{GEN}=6\Omega$)	$t_{(\text{on})}$	—	5	—	ns
Turn-OFF Time 关斷時間 ($V_{DS} = -15\text{V}, V_{GS} = -10\text{V}, R_{GEN}=6\Omega$)	$t_{(\text{off})}$	—	35	—	ns

Pulse Width $\leq 300 \mu\text{s}$; Duty Cycle $\leq 2.0\%$