

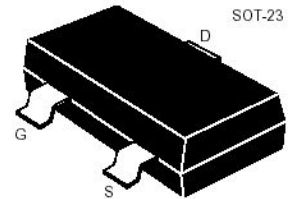


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GMS2306

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}	12	A
Total Device Dissipation 總耗散功率 $T_A=25^{\circ}C$ 環境溫度為 $25^{\circ}C$	P_D	1000	mW
Junction 結溫	T_J	150	$^{\circ}C$
Storage Temperature 儲存溫度	T_{stg}	-55to+150	$^{\circ}C$

■ **DEVICE MARKING 打標**

GMS2306=A6.



■ **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}	20	—	—	V
Gate Threshold Voltage 柵極開啓電壓($I_D = 250\mu\text{A}, V_{GS} = V_{DS}$)	$V_{GS(th)}$	0.5	—	1.5	V
Diode Forward Voltage Drop 內附二極管正向壓降($I_S=0.75\text{A}, V_{GS}=0\text{V}$)	V_{SD}	—	—	1.5	V
Zero Gate Voltage Drain Current 零柵壓漏極電流($V_{GS}=0\text{V}, V_{DS} = 16\text{V}$) ($V_{GS}=0\text{V}, V_{DS} = 16\text{V}, T_A=55^{\circ}\text{C}$)	I_{DSS}	—	—	1 10	μA
Gate Body Leakage 柵極漏電流($V_{GS}=\pm 8\text{V}, V_{DS}=0\text{V}$)	I_{GSS}	—	—	± 100	nA
Static Drain-Source On-State Resistance 靜態漏源導通電阻($I_D = 4\text{A}, V_{GS} = 4.5\text{V}$)	$R_{DS(ON)}$	—	—	60	$\text{m}\Omega$
Static Drain-Source On-State Resistance 靜態漏源導通電阻($I_D = 2\text{A}, V_{GS} = 2.5\text{V}$)	$R_{DS(ON)}$	—	—	80	$\text{m}\Omega$
Input Capacitance 輸入電容 ($V_{GS}=0\text{V}, V_{DS} = 10\text{V}, f=1\text{MHz}$)	C_{ISS}	—	500	—	pF
Output Capacitance 輸出電容 ($V_{GS}=0\text{V}, V_{DS} = 10\text{V}, f=1\text{MHz}$)	C_{OSS}	—	100	—	pF
Turn-ON Time 開啓時間 ($V_{DS} = 10\text{V}, I_D = 3\text{A}, R_{GEN}=6\Omega$)	$t_{(on)}$	—	8	—	ns
Turn-OFF Time 關斷時間 ($V_{DS} = 10\text{V}, I_D = 3\text{A}, R_{GEN}=6\Omega$)	$t_{(off)}$	—	60	—	ns

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