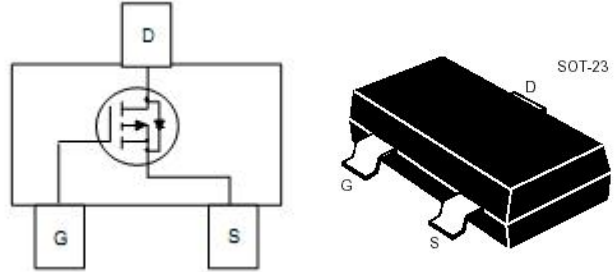




GML6401

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



P-Channel Enhancement-Mode MOS FETs

P 溝道增強型 MOS 場效應管

■MAXIMUM RATINGS 最大額定值

Characteristic 特性參數	Symbol 符號	Rat 額定值	Unit 單位
Drain-Source Voltage 漏極-源極電壓	BV_{DSS}	-12	V
Gate- Source Voltage 柵極-源極電壓	V_{GS}	± 8	V
Drain Current (continuous) 漏極電流-連續	I_D	-4.3	A
Drain Current (pulsed) 漏極電流-脈沖	I_{DM}	-13	A
Total Device Dissipation 總耗散功率 $T_A=25^\circ\text{C}$ 環境溫度為 25°C	P_D	1300	mW
Junction 結溫	T_J	150	$^\circ\text{C}$
Storage Temperature 儲存溫度	T_{stg}	-55to+150	$^\circ\text{C}$

■DEVICE MARKING 打標

GML6401=1F

GML6401

■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}	-12	—	—	V
Gate Threshold Voltage 柵極開啓電壓($I_D = -250\mu\text{A}, V_{GS}=V_{DS}$)	$V_{GS(th)}$	-0.4	—	-0.95	V
Zero Gate Voltage Drain Current 零柵壓漏極電流($V_{GS}=0\text{V}, V_{DS} = -12\text{V}$) ($V_{GS}=0\text{V}, V_{DS} = -9.6\text{V}, T_A=55^{\circ}\text{C}$)	I_{DSS}	—	—	-1 -25	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($I_D = -4.3\text{A}, V_{GS} = -4.5\text{V}$)	$R_{DS(ON)}$	—	—	50	$\text{m}\Omega$
Static Drain-Source On-State Resistance 靜態漏源導通電阻($I_D = -2.5\text{A}, V_{GS} = -2.5\text{V}$)	$R_{DS(ON)}$	—	—	85	$\text{m}\Omega$
Static Drain-Source On-State Resistance 靜態漏源導通電阻($I_D = -2\text{A}, V_{GS} = -1.8\text{V}$)	$R_{DS(ON)}$	—	—	125	$\text{m}\Omega$
Input Capacitance 輸入電容 ($V_{GS}=0\text{V}, V_{DS} = -10\text{V}, f=1\text{MHz}$)	C_{ISS}	—	830	—	pF
Output Capacitance 輸出電容 ($V_{GS}=0\text{V}, V_{DS} = -10\text{V}, f=1\text{MHz}$)	C_{OSS}	—	180	—	pF
Reverse Transfer Capacitance 回饋電容($V_{GS}=0\text{V}, V_{DS}=-10\text{V}, f=1\text{MHz}$)	C_{RSS}	—	150	—	pF
Gate Charge 柵極電荷密度 ($V_{DS}=-10\text{V}, V_{GS}=-5\text{V}, I_D=-2\text{A}$)	Q_g	—	3	—	nC
Turn-ON Time 開啓時間 ($V_{DS} = -6\text{V}, I_D = -1\text{A}, R_{GEN}=6\Omega$)	$t_{(on)}$	—	11	—	ns
Turn-OFF Time 關斷時間 ($V_{DS} = -6\text{V}, I_D = -1\text{A}, R_{GEN}=6\Omega$)	$t_{(off)}$	—	250	—	ns

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

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■ TYPICAL CHARACTERISTIC CURVE 典型特性

