



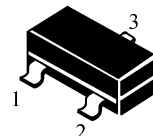
桂林斯壯微電子有限責任公司

Guilin Strong Micro-Electronics Co.,Ltd.

GM8050

SOT-23

- 1. BASE
- 2. EMITTER
- 3. COLLECTOR



FEATURES 特點

Low Frequency Power Amplifier 低頻功率放大
Suitable for Driver Stage of Small Motor 小馬達驅動
Complementary to GM8550 与 GM8550 互补

最大額定值($T_a=25^{\circ}\text{C}$)

CHARACTERISTIC 特性參數	Symbol 符號	Rating 額定值	Unit 單位
Collector-Base Voltage 集電極-基極電壓	V_{CBO}	40 25(GMC6802)	Vdc
Collect-Emmitter Voltage 集電極-發射極電壓	V_{CEO}	25 18(GMC6802)	Vdc
Emitter-Base Voltage 發射極-基極電壓	V_{EBO}	5.0	Vdc
Collector Current 集電極電流	I_c	500(S8050A,S8050) 1000(M8050) 1200(MMT8050) 1500(SS8050) 1800(GMC6802)	mAdc
Collector Power Dissipation 集電極耗散功率	P_C	225	mW
Junction Temperature 結溫	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range 儲存溫度	T_{stg}	-55~150	$^{\circ}\text{C}$

DEVICE MARKING 打標

S8050A=J3Y. S8050=J3Y M8050=Y1.
MMT8050=Y1 SS8050=Y.1 GMC6802=6802

H_{FE} RANGE 放大倍數分檔

H_{FE} (85~150), (120~220)
 (200~300), (280~400)



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■ELECTRICAL CHARACTERISTICS 電特性

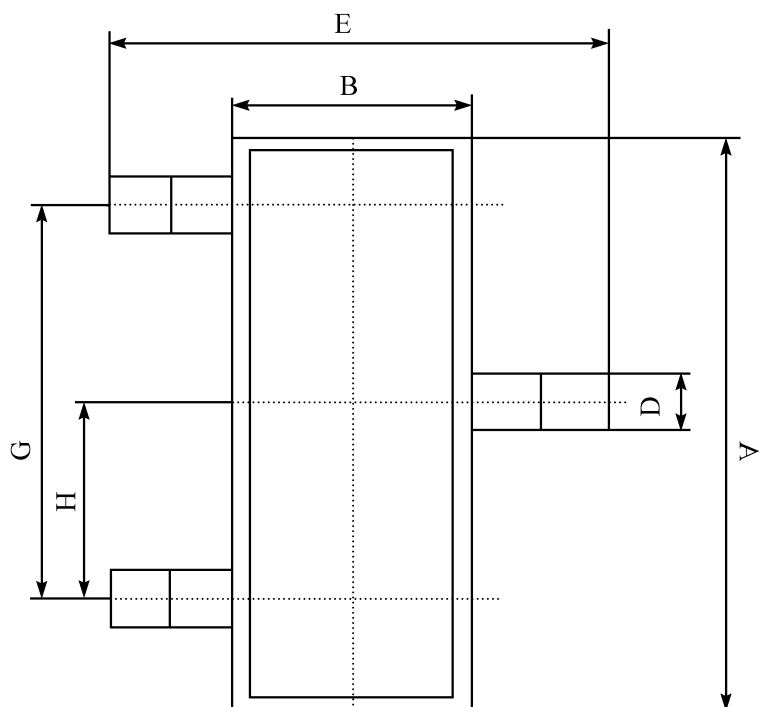
($T_A=25^{\circ}\text{C}$ unless otherwise noted 如無特殊說明，溫度為 25°C)

Characteristic 特性參數	Symbol 符號	Test Condition 測試條件	Min. 最小值	Typ. 典型值	Max. 最大值	Unit 單位
Collector Cutoff Current 集電極截止電流	I _{CBO}	V _{CB} =30V,I _E =0	—	—	0.1	μ A
Emitter Cutoff Current 發射極截止電流	I _{EBO}	V _{EB} =5V,I _C =0	—	—	0.1	μ A
Collector-Base Breakdown Voltage 集電極-基極擊穿電壓	V _{(BR)CBO}	I _C =100 μ A (GMC6802)	40 (25)	—	—	V
Collector-Emitter Breakdown Voltage 集電極-發射極擊穿電壓	V _{(BR)CEO}	I _C =10mA (GMC6802)	25 (18)	—	—	V
Emitter-Base Breakdown Voltage 發射極-基極擊穿電壓	V _{(BR)EBO}	I _E =100 μ A	5	—	—	V
DC Current Gain 直流電流增益	H _{FE} (1)	V _{CE} =1V,I _C =100mA	85	—	400	—
	H _{FE} (2)	V _{CE} =1V, I _C =1800mA(GMC6802)	50	—	—	
		I _C =800mA (M8050,MMT8050, SS8050)	40			
		I _C =500mA(S8050) I _C =500mA(S8050A)	40 30			
Collector-Emitter Saturation Voltage 集電極-發射極飽和壓降	V _{CE(sat)}	I _C =500mA, I _B =50mA	—	—	0.6	V
Base-Emitter Voltage 基極-發射極電壓	V _{BE}	V _{CE} =1V,I _C =10mA	—	0.8	1.0	V
Transition Frequency 特徵頻率	f _T	V _{CE} =5V,I _C =10mA	100	120	—	MHz
Collector Output Capacitance 輸出電容	C _{ob}	V _{CB} =10V,I _E =0,f=1MHz	—	13	30	pF



GM8050

■DIMENSION 外形封裝尺寸



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	$7 \pm 2^\circ$

