



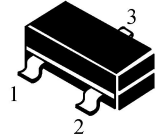
桂林斯壯桂微電子有限責任公司

Guilin Strong Micro-Electronics Co.,Ltd.

GMC1623(銷售型號 2SC1623)

SOT-23

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



■FEATURES 特點

NPN General Purpose Transistor

■MAXIMUM RATINGS 最大額定值

Characteristic 特性參數	Symbol 符號	Rating 額定值	Unit 單位
Collector-Emitter Voltage 集電極-發射極電壓	V_{CEO}	50	Vdc
Collector-Base Voltage 集電極-基極電壓	V_{CBO}	60	Vdc
Emitter-Base Voltage 發射極-基極電壓	V_{EBO}	5.0	Vdc
Collector Current—Continuous 集電極電流-連續	I_c	100	mAdc

■THERMAL CHARACTERISTICS 熱特性

Characteristic 特性參數	Symbol 符號	Max 最大值	Unit 單位
Total Device Dissipation 總耗散功率 FR-5 Board(1) $T_A=25^{\circ}C$ 環境溫度為 $25^{\circ}C$	P_D	225	mW
Derate above $25^{\circ}C$ 超過 $25^{\circ}C$ 遞減		1.8	mW/ $^{\circ}C$
Total Device Dissipation 總耗散功率 Alumina Substrate 氧化鋁襯底,(2) $T_A=25^{\circ}C$	P_D	300	mW
Derate above $25^{\circ}C$ 超過 $25^{\circ}C$ 遞減		2.4	mW/ $^{\circ}C$
Thermal Resistance Junction to Ambient 熱阻	$R_{\theta JA}$	417	$^{\circ}C/W$
Junction and Storage Temperature 結溫和儲存溫度	T_J, T_{stg}	-55to+150 $^{\circ}C$	

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■DEVICE MARKING 打標

GMC1623(2SC1623)=L4-L7
H_{FE}:90-180=L4; 135-270=L5; 200-400=L6; 300-600=L7

■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	Type 典型值	Max 最大值	Unit 單位
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■OFF CHARACTERISTICS 截止電特性

Emitter Cutoff Current 發射極截止電流(V _{EB} =5.0v,I _C =0)	I _{EBO}	—	—	0.1	μA
Collector Cutoff Current 集電極截止電流(V _{CB} =60v,I _E =0)	I _{CBO}	—	—	0.1	μA
Collector to Emitter Saturation Voltage 集電極飽和壓降(I _C =100mAdc,I _B =10mA)	V _{CE(sat)}	—	0.15	0.3	Vdc
Base to Emitter Saturation Voltage 基極飽和壓降(I _C =100mAdc,I _B =10mA)	V _{BE(sat)}	—	—	1.0	Vdc
Base to Emitter Voltage 基極-發射極電壓(V _{CE} =6.0v,I _C =1.0mA)	V _{BE}	0.55	0.62	0.65	Vdc
DC Current Gain 直流電流增益 (V _{CE} =6.0v,I _C =1.0mA)	H _{FE}	90	200	600	
Gain Bandwidth Product 增益帶寬乘積(V _{CE} =6.0v,I _C =1.0mA)	f _T	—	250	—	MHz
Output Capacitance 輸出電容(V _{CB} =6v,I _E =0,f=1.0MHz)	C _{ob}	—	3.0	—	pF

1. FR-5=1.0×0.75×0.062in.
2. Alumina=0.4×0.3×0.024in.99.5%alumina.