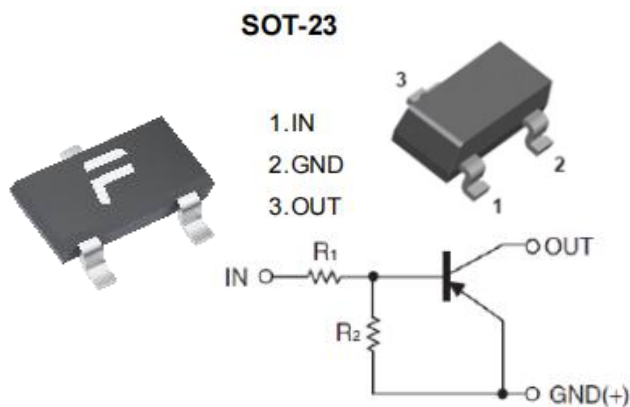


SOT-23 Digital Transistor 数字晶体管

■ Features 特点

PNP With Bias Resistor Network
带偏置电阻

■ Absolute Maximum Ratings 最大额定值



Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Supply Voltage 电源电压	V_{CC}	-50	V
Input Voltage 输入电压	V_{IN}	-12~+5	V
Output Current 输出电流	I_O	-100	mA
Power dissipation 耗散功率	$P_C(T_a=25^{\circ}\text{C})$	200	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\theta JA}$	625	$^{\circ}\text{C}/\text{W}$
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	-55to+150 $^{\circ}\text{C}$	

■ Device Marking 产品打标

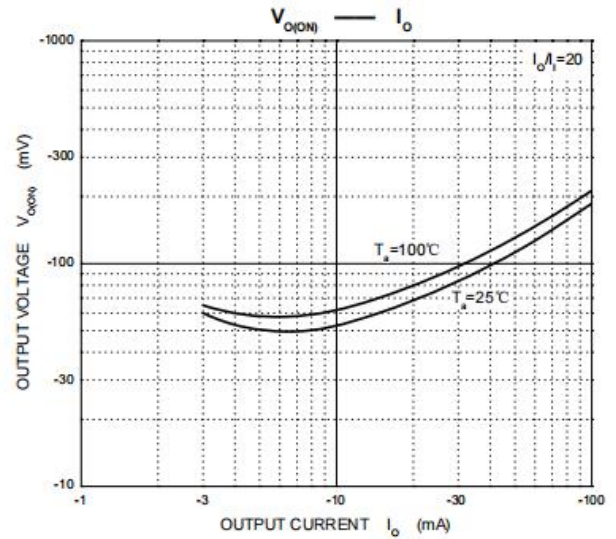
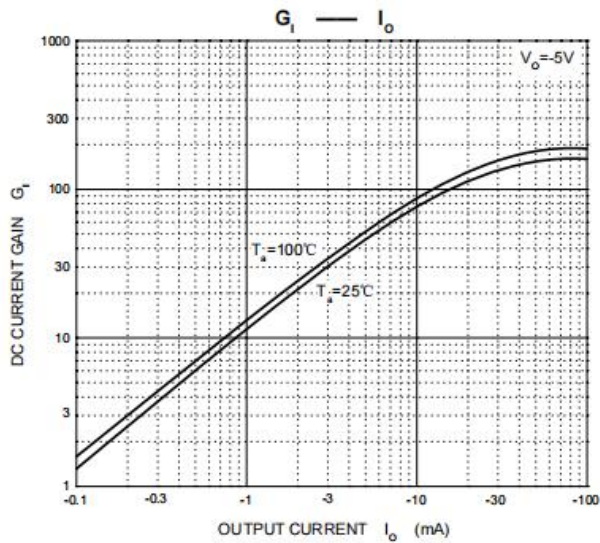
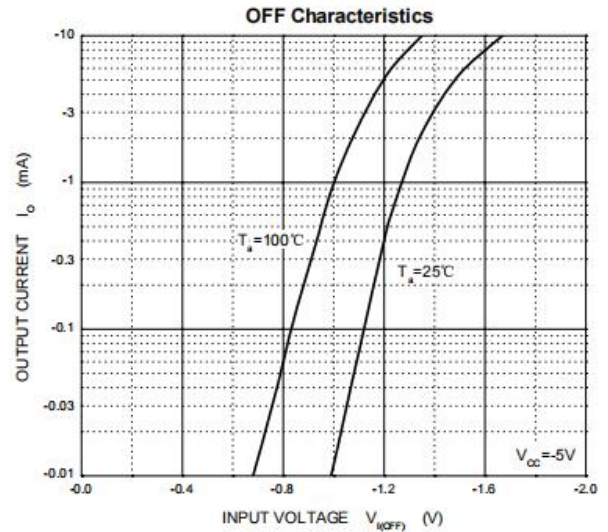
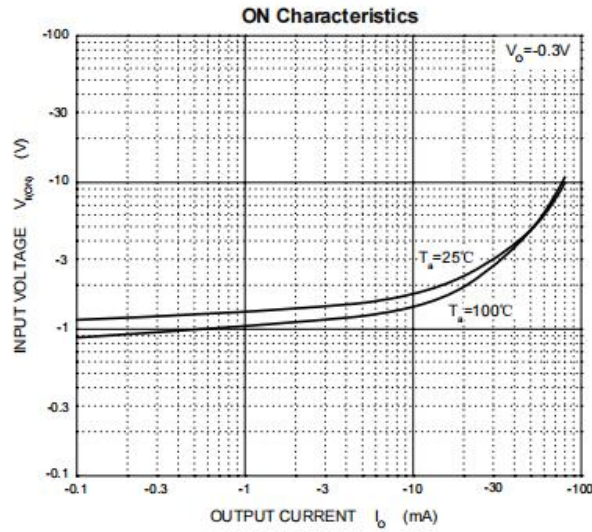
DTA123JCA=32

■Electrical Characteristics 电特性

(TA=25℃ unless otherwise noted 如无特殊说明, 温度为 25℃)

Characteristic 特性参数	Symbol 符号	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Input Voltage 输入电压 (V _{CC} = -5V, I _O = -100μA)	V _{I(off)}	-0.5	—	—	V
Input Voltage 输入电压 (V _O = -0.3V, I _O = -5mA)	V _{I(on)}	—	—	-1.1	V
Output Voltage 输出电压 (I _O /I _I = -5mA/ -0.25mA)	V _{O(on)}	—	-0.1	-0.3	V
Input Current 输入电流 (V _I = -5V)	I _I	—	—	-3.6	mA
Output Current 输出电流 (V _{CC} = -50V, V _I =0)	I _{O(off)}	—	—	-0.5	μA
DC Current Gain 直流电流增益 (V _O = -5V, I _O = -5mA)	G _I	80	—	—	
Input Resistor 输入电阻	R _I	1.54	2.2	2.86	KΩ
Resistor Ratio 电阻比率	R ₂ /R ₁	17	21	26	
Transition frequency 特征频率 (V _O = -10V, I _O = -5mA)	f _T	—	250	—	MHz

■ Typical Characteristic Curve 典型特性曲线



产品存储要求:

如无特殊说明, 我司未开封的产品(真空包装的产品)默认存储条件为 2 年。

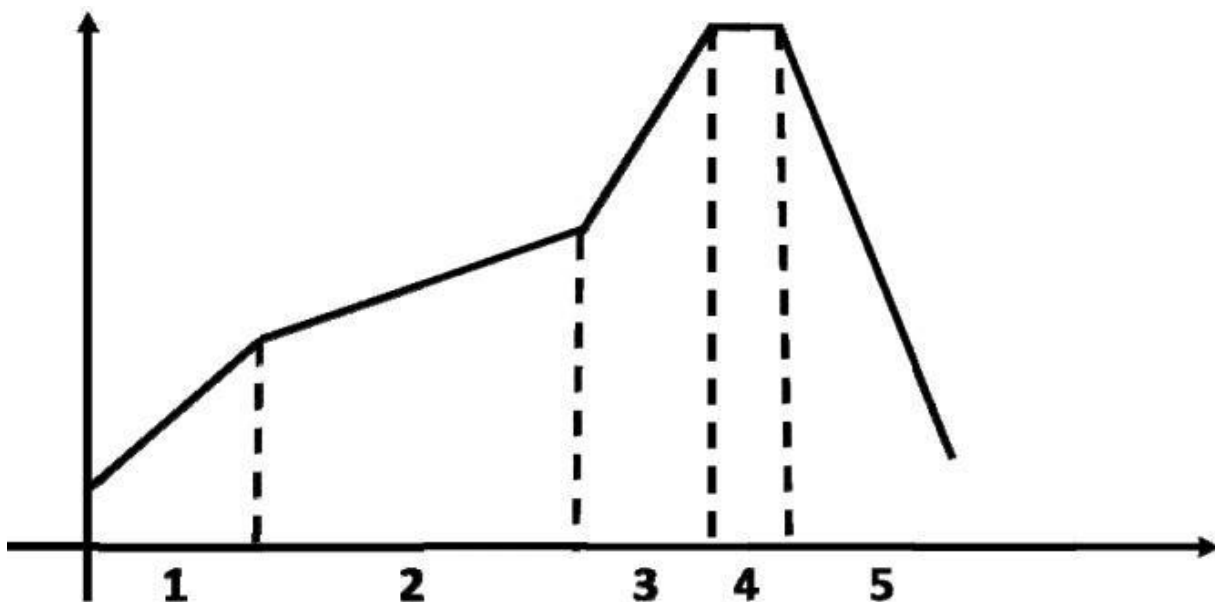
推荐存储条件:

$10^\circ C \leq \text{温度} < 40^\circ C$, 湿度 $< 70\%RH$ 。

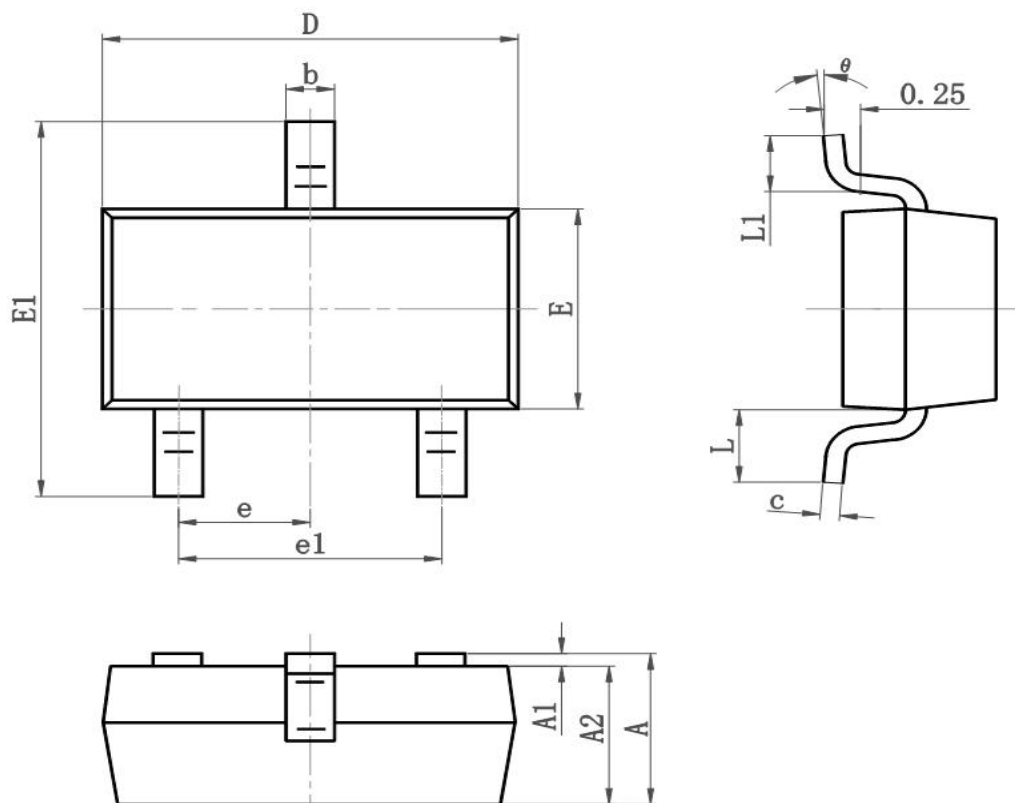
■Soldering profile 焊接规范

Profile Feature 阶段	Reflow Soldering 回流焊	Wave Soldering 波峰焊
1、Preheat Ramp up Rate 预热升温速率	1-4°C/S	1-7°C/S
2、Soak Temperature 浸润温度	150°C-200°C	110°C-140°C
Soak Time 浸润时间	60-180S	60-120S
3、Ramp up to Peak 峰温前升温速率	1-4°C/S	1-50°C/S
4、Peak Soak Temperature 峰温浸润温度	245°C-260°C	245°C-260°C
Peak Soak Time 峰温浸润时间	10S Max	10S Max
5、Ramp down Rate 降温速率	1-6°C/S Max	1-7°C/S

Pb free Assembly 无铅环保工艺



■Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.050	0.055
E1	2.250	2.550	0.089	0.100
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.500	0.600	0.020	0.024
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°