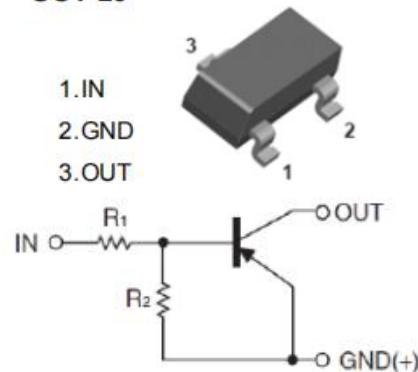


SOT-23 Digital Transistor 数字晶体管**■ Features 特点**

PNP With Bias Resistor Network
带偏置电阻

SOT-23**■ Absolute Maximum Ratings 最大额定值**

Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Supply Voltage 电源电压	V _{CC}	-50	V
Input Voltage 输入电压	V _{IN}	-40~+10	V
Output Current 输出电流	I _O	-100	mA
Power dissipation 耗散功率	P _C (T _a =25°C)	200	mW
Thermal Resistance Junction-Ambient 热阻	R _{θJA}	625	°C/W
Junction and Storage Temperature 结温和储藏温度	T _J , T _{stg}	-55 to +150	°C

■ Device Marking 产品打标

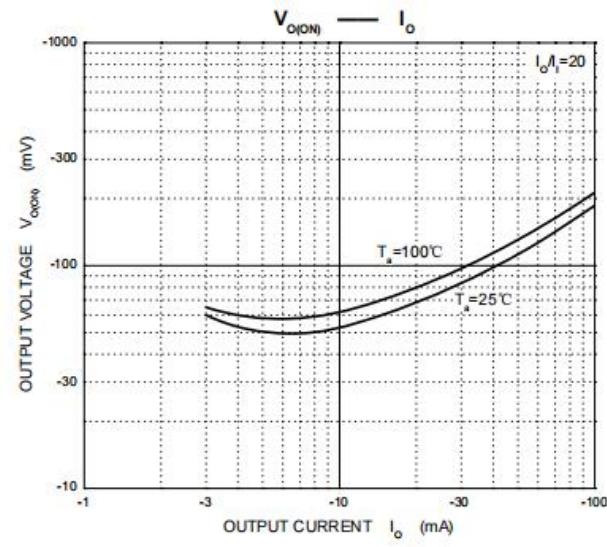
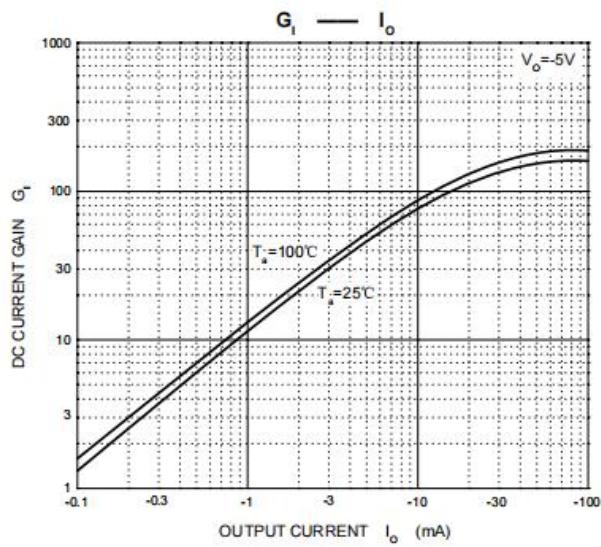
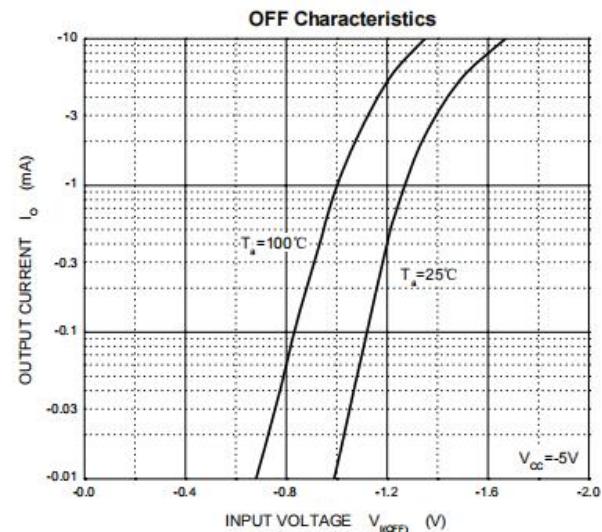
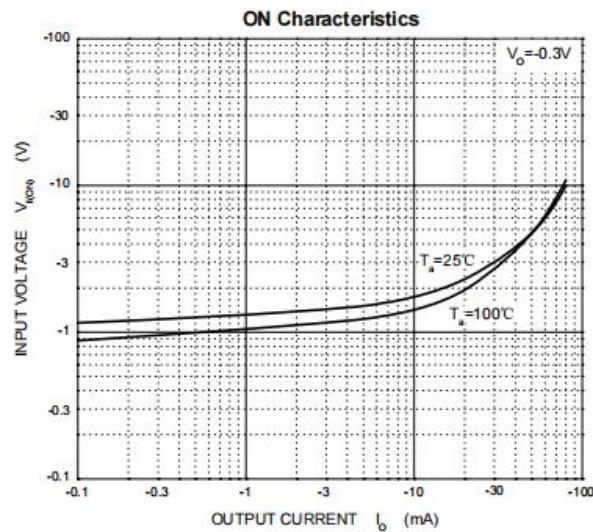
DTA114E=14

■ Electrical Characteristics 电特性

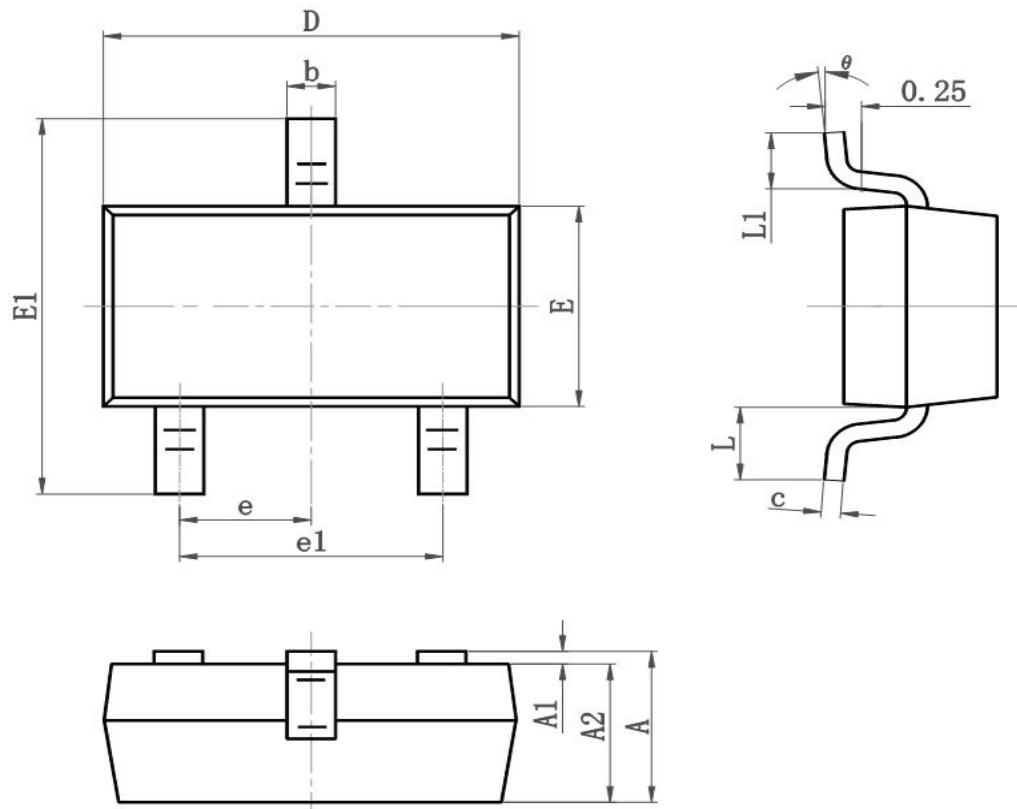
(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

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 = -10mA)	V _{I(on)}	—	—	-3	V
Output Voltage 输出电压 (I _O /I _I = -10mA/ -0.5mA)	V _{O(on)}	—	—	-0.3	V
Input Current 输入电流 (V _I = -5V)	I _I	—	—	-0.88	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	30	—	—	
Input Resistor 输入电阻	R ₁	7	10	13	KΩ
Resistor Ratio 电阻比率	R ₂ /R ₁	0.8	1	1.2	
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



■ 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°