

DTC124ETA (3RC124ETA) 硅 NPN 数字三极管/SILICON NPN DIGITAL TRANSISTOR

用途：用于开关、反相电路、界面电路以及驱动电路中。

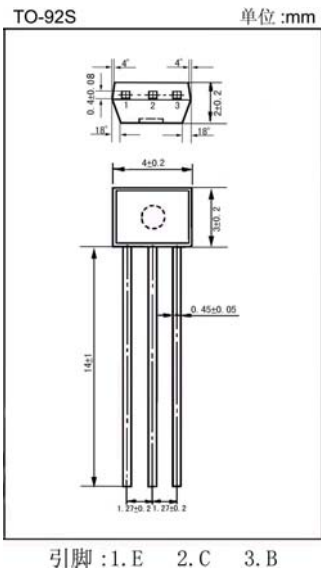
Purpose: Switching, inverter circuit, interface circuit and driver circuit applications.

特点：内装偏置电阻，简化线路设计，减少元件和制造流程。

Features: With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process.

极限参数/Absolute maximum ratings (Ta=25℃)

参数符号 Symbol	数值 Rating	单位 Unit
V_{CC}	50	V
V_{IN}	40	V
	-10	V
I_C	100	mA
I_O	30	mA
P_C	500	mW
T_j	150	℃
T_{stg}	-55~150	℃



电性能参数/Electrical characteristics (Ta=25℃)

参数符号 Symbol	测试条件 Test condition	数值 Rating			单位 Unit
		最小值 Min	典型值 Typ	最大值 Max	
V _{I(off)}	v _{cc} =5. 0V I ₀ =100 μ A			0. 5	V
V _{I(on)}	V ₀ =0. 2V I ₀ =5. 0mA	3. 0			V
V _{0(on)}	I ₀ =10mA I ₁ =0. 5mA		0. 1	0. 3	V
I _I	V _I =5. 0V			0. 36	mA
I _{0(off)}	V _{cc} =50V V _I =0V			0. 5	μ A
G _I	V ₀ =5. 0V I ₀ =5. 0mA	56			
f _T	V _{ce} =10V I _c =5. 0mA f=100MHz		250		MHz
R ₁		15. 4	22	28. 6	K Ω
R ₂ /R ₁		0. 8	1	1. 2	

等效电路图

