

DTC144ETA (3RC144ETA) 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。

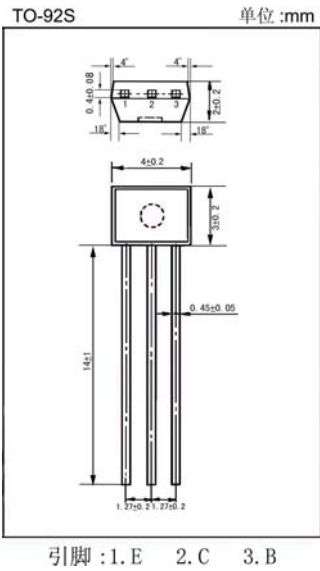
Purpose: Switching, inverter circuit, interface circuit and driver circuit applications.

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 ₀	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 =0.3V I ₀ =2mA	3.0			V
V _{0(on)}	I ₀ =10mA I _I =0.5mA			0.3	V
I _I	V _I =5.0V			0.18	mA
I _{0(off)}	V _{CC} =50V V _I =0V			0.5	μ A
G _I	V ₀ =5.0V I ₀ =5.0mA	68			
f _T	V _{CE} =10V I _E =-5.0mA f=100MHz		250		MHz
R ₁		32.9	47	61.1	KΩ
R ₂ /R ₁		0.8	1.0	1.2	

等效电路图

