

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。

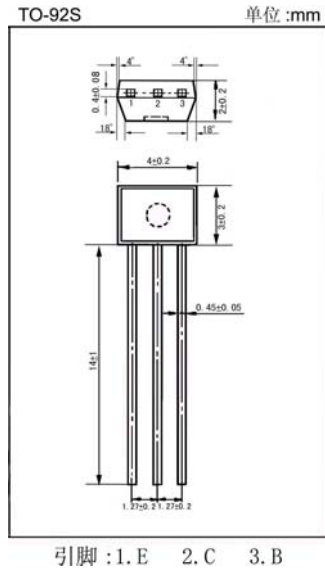
Purpose: Switching, inverter circuit, interface circuit and driver circuit applications.

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°C)

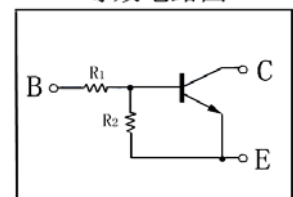
参数符号 Symbol	数值 Rating	单位 Unit
V _{CC}	50	V
V _{IN}	40	V
	-10	V
I _C	100	mA
I _O	30	mA
P _C	500	mW
T _j	150	°C
T _{stg}	-55~150	°C



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

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 _O =100 μA			0.5	V
V _{I(on)}	V _O =0.2V	I _O =5.0mA	3.0			V
V _{O(on)}	I _O =10mA	I _I =0.5mA		0.1	0.3	V
I _I	V _I =5.0V				0.36	mA
I _{O(off)}	V _{CC} =50V	V _I =0V			0.5	μA
G _I	V _O =5.0V	I _O =5.0mA	56			
f _T	V _{CE} =10V	I _C =5.0mA		250		MHz
R ₁			15.4	22	28.6	KΩ
R ₂ /R ₁			0.8	1	1.2	

等效电路图



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