

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.

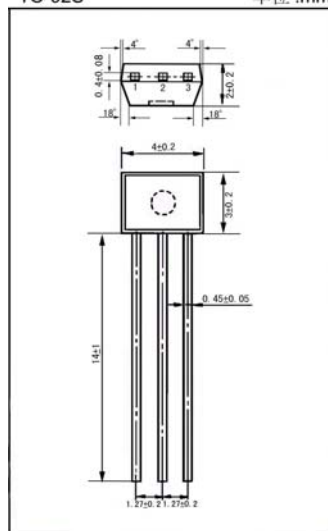
特点:内装偏置电阻, 简化线路设计, 减少元件和制造流程。

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

极限参数/Absolute maximum ratings ($T_a=25^{\circ}\text{C}$)

参数符号 Symbol	数值 Rating	单位 Unit
V_{CBO}	50	V
V_{CEO}	50	V
V_{EB0}	10	V
I_{C}	100	mA
P_{C}	300	mW
T_{j}	150	$^{\circ}\text{C}$
T_{stg}	-55~150	$^{\circ}\text{C}$

TO-92S 单位:mm

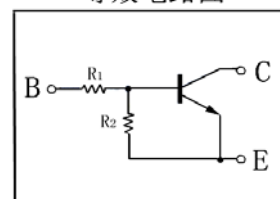


引脚: 1. E 2. C 3. B

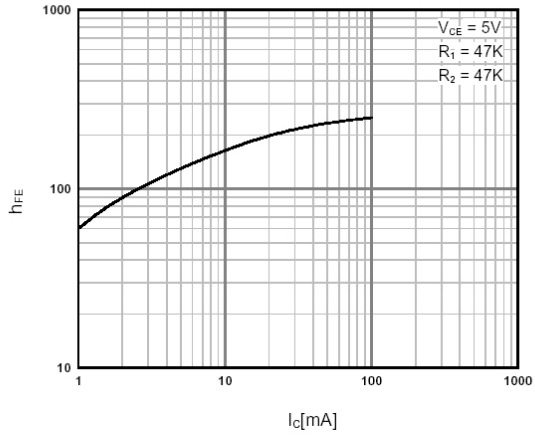
电性能参数/Electrical characteristics ($T_a=25^{\circ}\text{C}$)

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_{CBO}	$I_{\text{C}}=10\ \mu\text{A}$	$I_{\text{E}}=0$	50			V
V_{CEO}	$I_{\text{C}}=100\ \mu\text{A}$	$I_{\text{B}}=0$	50			V
I_{CBO}	$V_{\text{CB}}=40\text{V}$	$I_{\text{E}}=0$			0.1	μA
h_{FE}	$V_{\text{CE}}=5.0\text{V}$	$I_{\text{C}}=5.0\text{mA}$	68			
$V_{\text{CE(sat)}}$	$I_{\text{C}}=10\text{mA}$	$I_{\text{B}}=0.5\text{mA}$			0.3	V
f_{T}	$V_{\text{CE}}=5.0\text{V}$	$I_{\text{C}}=10\text{V}$		250		MHz
C_{ob}	$V_{\text{CB}}=10\text{V}$	$I_{\text{E}}=0$	$f=1.0\text{MHz}$	3.7		pF
$V_{\text{I(off)}}$	$V_{\text{CE}}=5.0\text{V}$	$I_{\text{C}}=100\ \mu\text{A}$	0.5			V
$V_{\text{I(on)}}$	$V_{\text{CE}}=0.3\text{V}$	$I_{\text{C}}=5.0\text{mA}$			3.0	V
R_1			32	47	62	$\text{K}\Omega$
R_1/R_2			0.9	1.0	1.1	

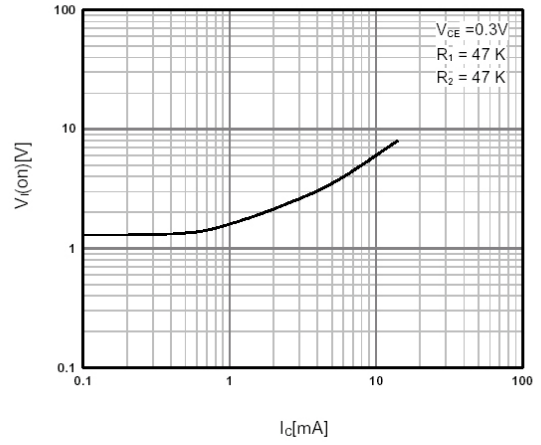
等效电路图



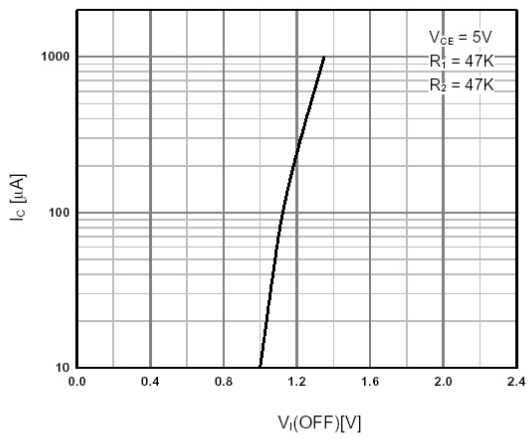
$h_{FE} - I_c$



$V_{I(on)} - I_c$



$I_c - V_{I(OFF)}$



$P_c - T_a$

