



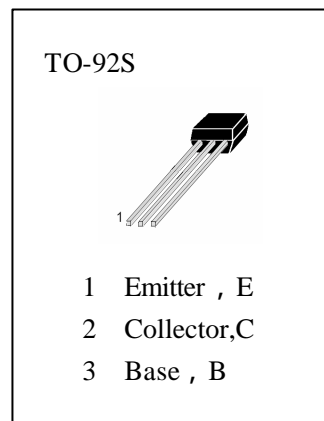
HA144T

APPLICATIONS

Switching Circuit , Interface Circuit.

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

T_{stg}	Storage Temperature.....	-55~150
T_j	Junction Temperature.....	150
P_C	Collector Dissipation.....	300mW
V_{CBO}	Collector-Base Voltage.....	-50V
V_{CEO}	Collector-Emitter Voltage.....	-50V
V_{EBO}	Emitter-Base Voltage.....	-5V
I_C	Collector Current.....	-100mA



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BVCBO	Collector-Base Breakdown Voltage	-50			V	$I_C=-10\mu A, I_E=0$
BVCEO	Collector-Emitter Breakdown Voltage	-50			V	$I_C=-0.1mA, I_B=0$
BVEBO	Emitter-Base Breakdown Voltage	-5			V	$I_E=-50\mu A, I_C=0$
ICBO	Collector Cut-off Current			-0.1	μA	$V_{CB}=-40V, I_E=0$
IEBO	Emitter Cut-off Current			-0.1	μA	$V_{EB}=-5V, I_C=0$
HFE	DC Current Gain	100	250	600		$V_{CE}=-5V, I_C=-1mA$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage		-0.1	-0.3	V	$I_C=-5mA, I_B=-0.5mA$
$V_I(off)$	Input Off Voltage	-0.4	-0.55	-0.8	V	$V_{CE}=-5V, I_C=-0.1mA$
$V_I(on)$	Input On Voltage	-0.8	-2.0	-4.0	V	$V_{CE}=-0.2V, I_C=-5mA$
R1	Input Resistor	33	47	61	K	
fr	Current Gain-Bandwidth Product		250		MHz	$V_{CE}=-10V, I_C=-5mA$
Cob	Output Capacitance		5.5		pF	$V_{CB}=-10V, f=1MHz$