

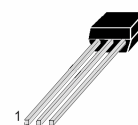
**APPLICATIONS**

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.....	-10V
I_C	Collector Current.....	-100mA

TO-92S



1—Emitter , E
2—Collector,C
3—Base , B

ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV_{CBO}	Collector-Base Breakdown Voltage	-50			V	$I_C=-10\mu A$, $I_E=0$
BV_{CEO}	Collector-Emitter Breakdown Voltage	-50			V	$I_C=-0.1mA$, $I_B=0$
I_{CBO}	Collector Cut-off Current			-0.1	μA	$V_{CB}=-40V$, $I_E=0$
I_{CEO}	Collector Cut-off Current			-0.5	μA	$V_{CE}=-40V$, $I_B=0$
I_{EBO}	Emitter Cut-off Current	-200	-340	-420	μA	$V_{EB}=-5V$, $I_C=0$
H_{FE}	DC Current Gain	30				$V_{CE}=-5V$, $I_C=-10mA$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage		-0.1	-0.3	V	$I_C=-10mA$, $I_B=-0.5mA$
$V_I(off)$	Input Off Voltage	-0.3			V	$V_{CE}=-5V$, $I_C=-0.1mA$
$V_I(on)$	Input On Voltage			-2.5	V	$V_{CE}=-0.3V$, $I_C=-20mA$
R1	Input Resistor	3.2	4.7	6.2	Kohm	
R1/R2	Resistance Ratio	0.42	0.47	0.52		
fr	Current Gain-Bandwidth Product		250		MHz	$V_{CE}=-10V$, $I_C=-5mA$