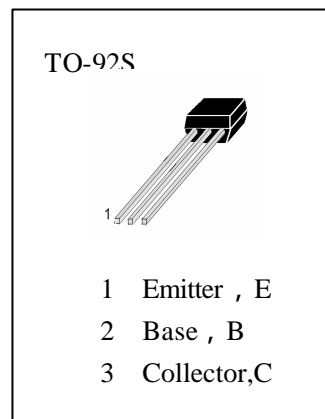


**APPLICATIONS**

Small Signal Amplifier ; High Frequency oscillator ; Switching Applications .  
(complement To H3904)

**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.....	-40V
$V_{CEO}$ —Collector-Emitter Voltage.....	-40V
$V_{EBO}$ —Emitter-Base Voltage.....	-5V
$I_C$ —Collector Current.....	-200mA

**ELECTRICAL CHARACTERISTICS (  $T_a=25$  )**

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
$BVC_{BO}$	Collector-Base Breakdown Voltage	-40			V	$I_C=-100\mu A, I_E=0$
$BV_{CEO}$	Collector-Emitter Breakdown Voltage	-40			V	$I_C=-10mA, I_B=0$
$BV_{EBO}$	Emitter- Base Breakdown Voltage	-5			V	$I_E=-10\mu A, I_C=0$
$I_{CBO}$	Collector Cut-off Current			-0.1	$\mu A$	$V_{CB}=-30V, I_E=0$
$I_{EBO}$	Emitter Cut-off Current			-0.1	$\mu A$	$V_{EB}=-5V, I_C=0$
$h_{FE}$	DC Current Gain	70		350		$V_{CE}=-1V, I_C=-10mA$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage			-0.25	V	$I_C=-10mA, I_B=-1mA$
$V_{BE(sat)}$	Base- Emitter Saturation Voltage			-0.85	V	$I_C=-10mA, I_B=-1mA$
$f_T$	Current Gain-Bandwidth Product	300			MHz	$V_{CE}=-20V, I_C=-10mA$ $f=100MHz$

 **$h_{FE}$  Classification**

A

B

70—240

220—350