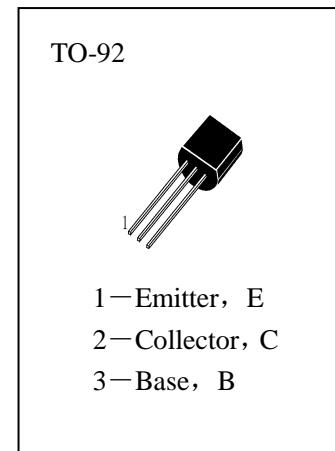


**■ APPLICATIONS**

General Purpose And Switching Applications.

**■ ABSOLUTE MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ )**

$T_{stg}$ —Storage Temperature.....	-55~150°C
$T_j$ —Junction Temperature.....	150°C
$P_C$ —Collector Dissipation.....	400mW
$V_{CBO}$ —Collector-Base Voltage.....	60V
$V_{CEO}$ —Collector-Emitter Voltage.....	50V
$V_{EBO}$ —Emitter-Base Voltage.....	5V
$I_C$ —Collector Current.....	150mA
$I_B$ —Base Current.....	50mA

**■ ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )**

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
$I_{CBO}$	Collector Cut-off Current			100	nA	$V_{CB}=60\text{V}$ , $I_E=0$
$I_{EBO}$	Emitter Cut-off Current			100	nA	$V_{EB}=5\text{V}$ , $I_C=0$
$HFE(1)$	DC Current Gain	70		700		$V_{CE}=6\text{V}$ , $I_C=2\text{mA}$
$HFE(2)$	DC Current Gain	25	100			$V_{CE}=6\text{V}$ , $I_C=150\text{mA}$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage		0. 1	0. 25	V	$I_C=100\text{mA}$ , $I_B=10\text{mA}$
$V_{BE(sat)}$	Base-Emitter Saturation Voltage			1. 0	V	$I_C=100\text{mA}$ , $I_B=10\text{mA}$
$f_T$	Current Gain-Bandwidth Product	80			MHz	$V_{CE}=10\text{V}$ , $I_C=1\text{mA}$
$C_{ob}$	Output Capacitance		2. 0	3. 5	pF	$V_{CB}=10\text{V}$ , $I_E=0$ , $f=1\text{MHz}$
NF	Noise Figure		1. 0	10	dB	$V_{CE}=6\text{V}$ , $I_C=100 \mu\text{A}$ $f=1\text{KHz}$ , $R_g=10\text{K} \Omega$

**■ hfe Classification**

O	Y	GR	BL
70—140	120—240	200—400	350—700