



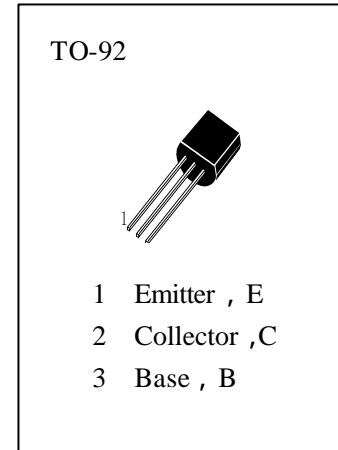
H3202

APPLICATIONS

General Purpose And Switching Applications..

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

T_{stg}	Storage Temperature.....	-55~150
T_j	Junction Temperature.....	150
P_C	Collector Dissipation.....	500mW
V_{CBO}	Collector-Base Voltage.....	35V
V_{CEO}	Collector-Emitter Voltage.....	30V
V_{EBO}	Emitter-Base Voltage.....	5V
I_C	Collector Current.....	500mA
I_B	Base Current.....	100mA



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BVCBO	Collector-Base Breakdown Voltage	35			V	$I_C=100 \mu A, I_E=0$
BVCEO	Collector-Emitter Breakdown Voltage	30			V	$I_C=1mA, I_B=0$
BVEBO	Emitter-Base Breakdown Voltage	5			V	$I_E=100 \mu A, I_C=0$
HFE(1)	DC Current Gain	70		240		$V_{CE}=1V, I_C=100mA$
HFE(2)	DC Current Gain	25				$V_{CE}=6V, I_C=400mA$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage		0.1	0.25	V	$I_C=20mA, I_B=2mA$
$V_{BE(ON)}$	Base-Emitter On Voltage		0.8	1.0	V	$V_{CE}=1V, I_C=100mA$
ICBO	Collector Cut-off Current			100	nA	$V_{CB}=35V, I_E=0$
IEBO	Emitter Cut-off Current			100	nA	$V_{EB}=5V, I_C=0$
fr	Current Gain-Bandwidth Product		300		MHz	$V_{CE}=6V, I_C=20mA$
Cob	Output Capacitance		7.0		pF	$V_{CB}=6V, I_E=0, f=1MHz$

hFE Classification

O

Y

70—140

120—240