



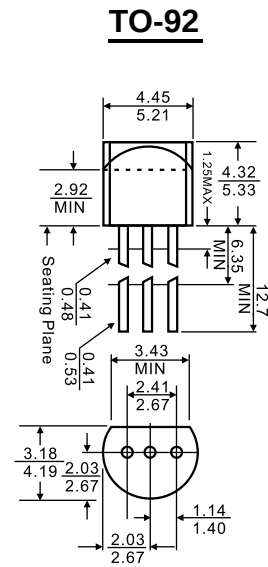
1. EMITTER
2. BASE
3. COLLECTOR

Features

- ✧ Power dissipation

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	25	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	800	mA
P_C	Collector Power Dissipation	625	mW
T_J	Junction Temperature	125	°C
T_{stg}	Storage Temperature	-55-125	°C



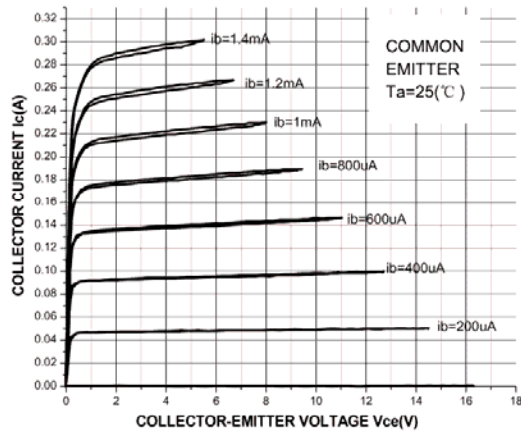
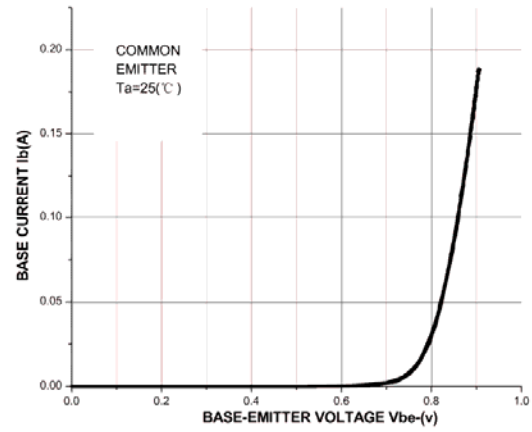
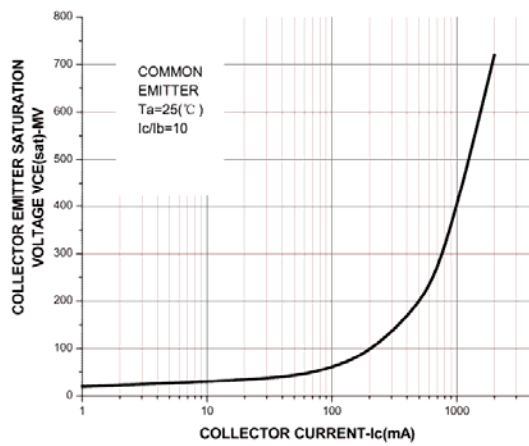
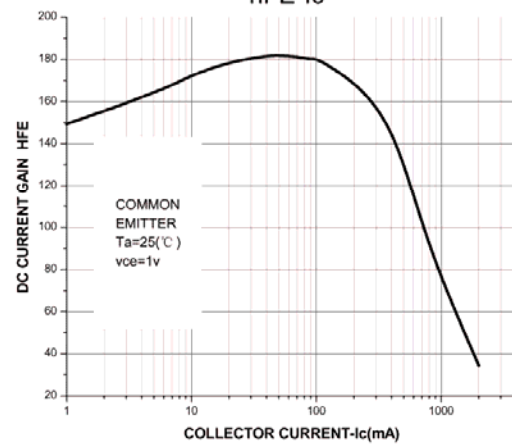
Dimensions in inches and (millimeters)

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 100\mu A, I_E = 0$	40		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}^*$	$I_C = 1mA, I_B = 0$	25		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 100\mu A, I_C = 0$	6		V
Collector cut-off current	I_{CBO}	$V_{CB} = 35V, I_E = 0$		0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = 20V, I_B = 0$		0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = 1V, I_C = 5mA$	45		
	$h_{FE(2)}$	$V_{CE} = 1V, I_C = 100mA$	80	400	
	$h_{FE(3)}$	$V_{CE} = 1V, I_C = 800mA$	40		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 800mA, I_B = 80mA$		0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = 800mA, I_B = 80mA$		1.2	V
Transition frequency	f_T	$V_{CE} = 6V, I_C = 20mA, f = 30MHz$	150		MHz

* Pulse Test : pulse width $\leq 300\mu\text{s}$, duty cycle $\leq 2\%$.

Typical Characteristics

 I_c - V_{ce}

 I_b - V_{be}

 $V_{ce(sat)}$ - I_c

 h_{FE} - I_c

 P_c - T_a
