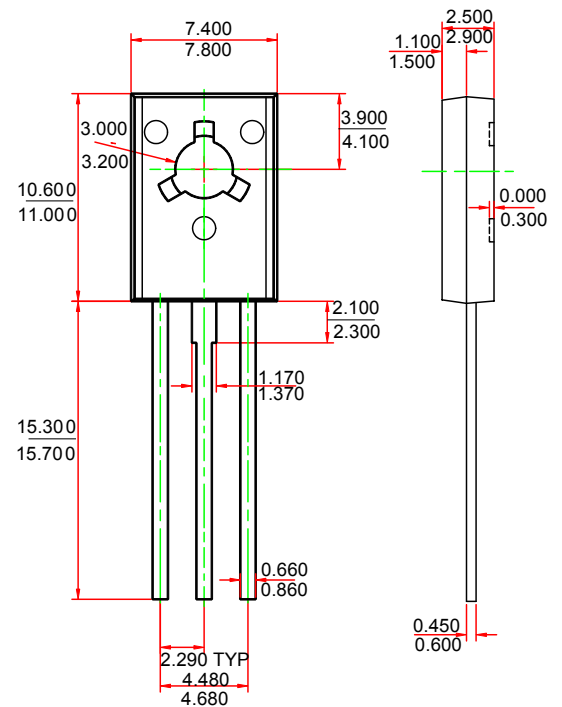


1. EMITTER
2. COLLECTOR
3. BASE



Dimensions in inches and (millimeters)

## Features

- ◇ Power dissipation

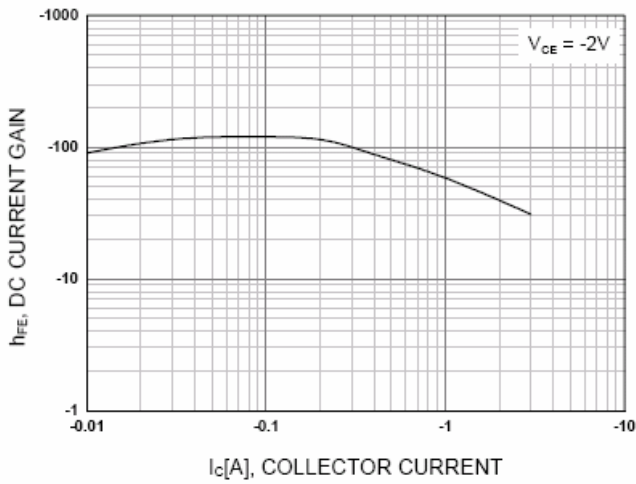
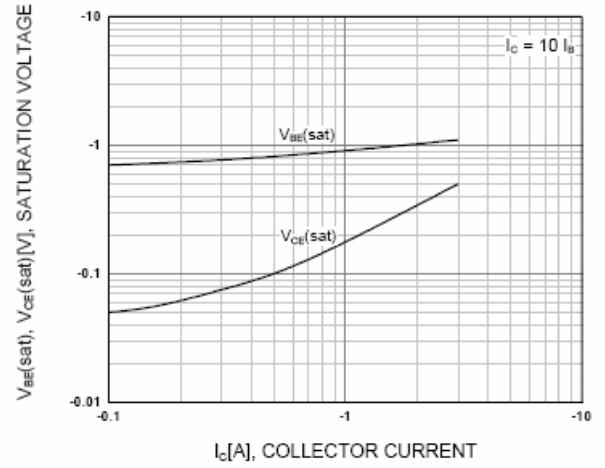
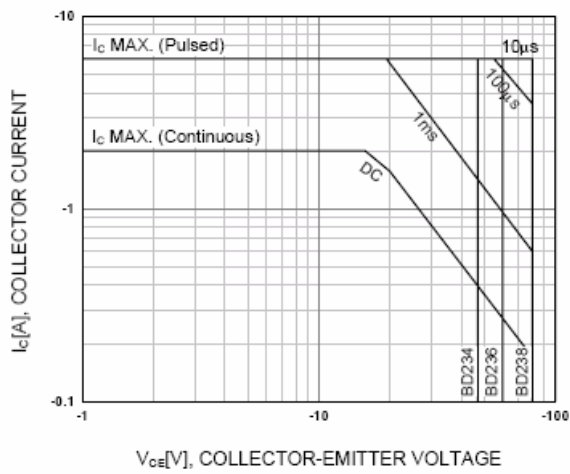
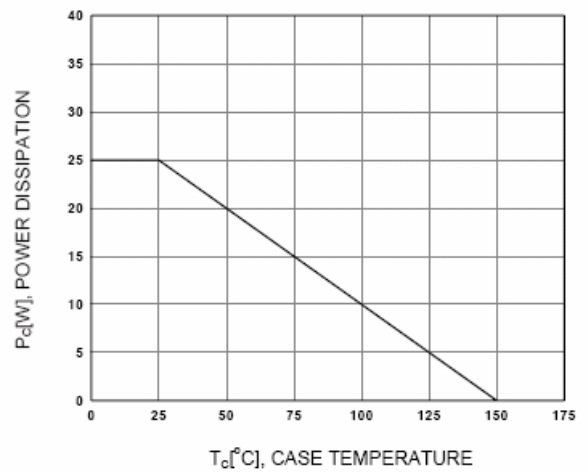
### MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Units
$V_{CB0}$	Collector-Base Voltage	BD234	-45
		BD236	-60
		BD238	-100
$V_{CEO}$	Collector-Emitter Voltage	BD234	-45
		BD236	-60
		BD238	-80
$V_{EBO}$	Emitter-Base Voltage	BD234	-5
		BD236	-5
		BD238	-5
$I_C$	Collector Current –Continuous	-2	A
$P_C$	Collector Power Dissipation	1.25	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature	-55-150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	BD234 BD236 BD238	$V_{(BR)CBO}$	-45 -60 -100		V
Collector-emitter breakdown voltage	BD234 BD236 BD238	$V_{(BR)CEO}$	-45 -60 -80		V
Emitter-base breakdown voltage		$V_{(BR)EBO}$	-5		V
Collector cut-off current	BD234 BD236 BD238	$I_{CBO}$		-100	$\mu\text{A}$
Emitter cut-off current		$I_{EBO}$		-1	mA
DC current gain		$h_{FE(1)}$	40		
		$h_{FE(2)}$	25		
Collector-emitter saturation voltage		$V_{CE(sat)}$		-0.6	V
Transition frequency		$f_T$	3		MHz

## Typical Characteristics


**Figure 1. DC current Gain**

**Figure 2. Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage**

**Figure 3. Safe Operating Area**

**Figure 4. Power Derating**