

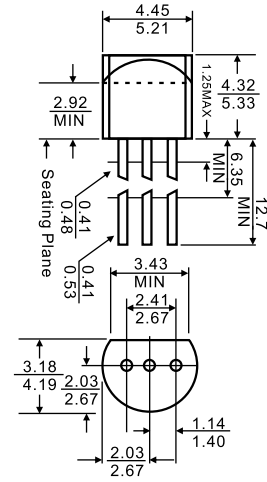
BC636/BC638/BC640

Transistor(PNP)



1. EMITTER
2. COLLECTOR
3. BASE

TO-92



Dimensions in inches and (millimeters)

Features

- ◇ High current transistors

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

Symbol	Parameter	Value	Units	
V_{CBO}	Collector-Base Voltage	BC636 -45 BC638 -60 BC640 -100	V	
	V_{CEO}	Collector-Emitter Voltage	BC636 -45 BC638 -60 BC640 -80	V
		V_{EBO}	Emitter-Base Voltage	-5
I_C		Collector Current -Continuous	-1	A
P_C	Collector Power Dissipation	0.83	W	
$R_{\theta JA}$	Thermal Resistance, junction to Ambient	150	$^\circ\text{C}/\text{W}$	
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	TYP	MAX	UNIT	
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu\text{A}, I_E=0$	BC636 -45 BC638 -60 BC640 -100			V	
		Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	BC636 -45 BC638 -60 BC640 -80		V
				Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu\text{A}, I_C=0$	-5
Collector cut-off current	I_{CBO}			$V_{CB}=-30\text{V}, I_E=0$		-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$		-0.1	μA		
DC current gain	$h_{FE(1)}$	$V_{CE}=-2\text{V}, I_C=-5\text{mA}$	40				
	$h_{FE(2)}$	$V_{CE}=-2\text{V}, I_C=-150\text{mA}$	63		250		
	$h_{FE(3)}$	$V_{CE}=-2\text{V}, I_C=-500\text{mA}$	25				
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-500\text{mA}, I_B=-50\text{mA}$			-0.5	V	
Base-emitter voltage	V_{BE}	$V_{CE}=-2\text{V}, I_C=-500\text{mA}$			-1	V	
Transition frequency	f_T	$V_{CE}=-5\text{V}, I_C=-50\text{mA}, f=100\text{MHz}$	100			MHz	

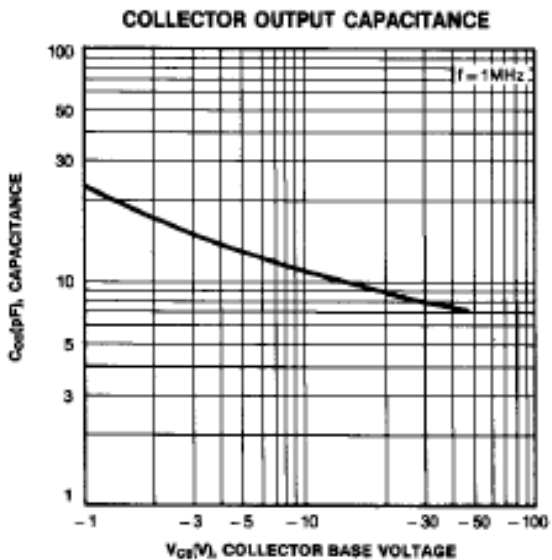
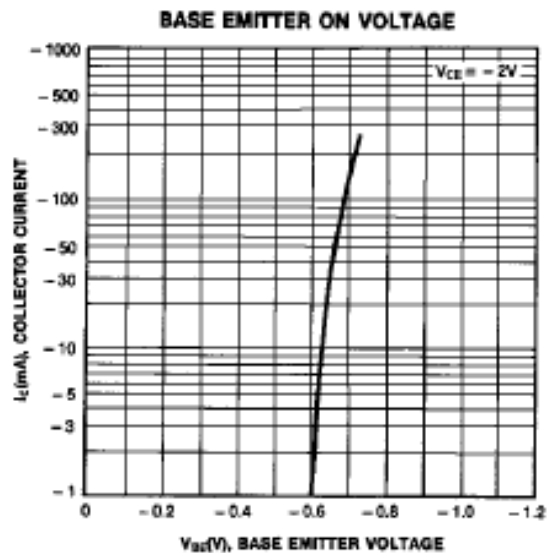
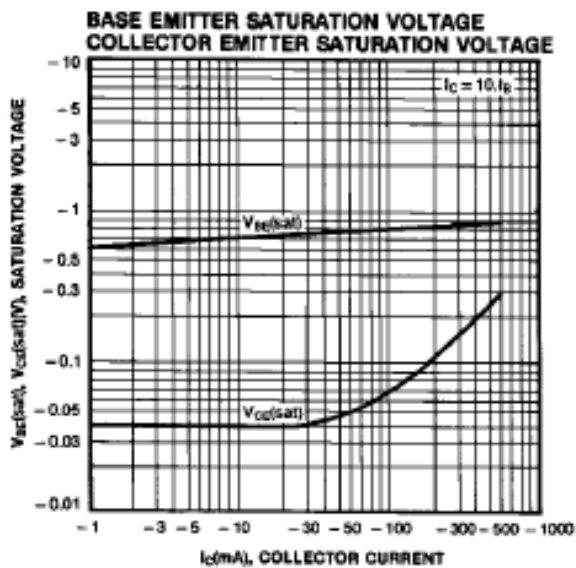
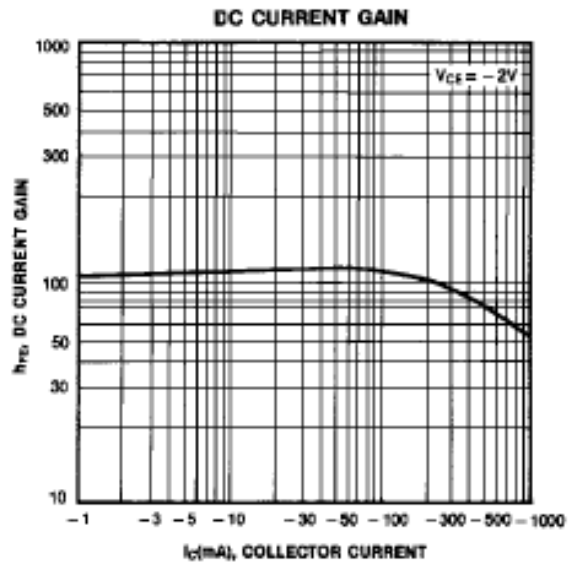
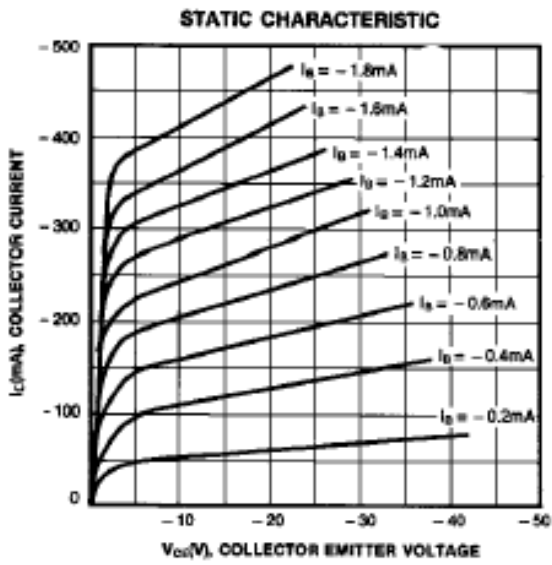
CLASSIFICATION OF $h_{FE(2)}$

Rank	BC636-10	BC636-16, BC638-16, BC640-16
Range	63-160	100-250

BC636/BC638/BC640

Transistor(PNP)

Typical Characteristics



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