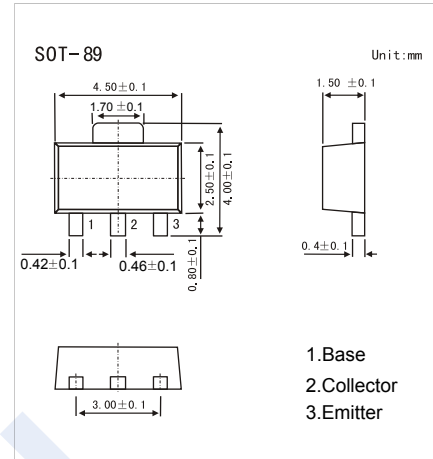


## PNP Transistors

### 2SB798

#### ■ Features

- Low Collector Saturation Voltage:  
 $V_{CE(sat)} < -0.4V$  ( $I_C = -1.0A, I_B = -100mA$ )
- Excellent DC Current Gain Linearity :  
 $h_{FE} = 100$  Typ. ( $V_{CE} = -1.0V, I_C = -1.0A$ )



#### ■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CBO}$	-30	V
Collector - Emitter Voltage	$V_{CEO}$	-25	
Emitter - Base Voltage	$V_{EBO}$	-5	
Collector Current - Continuous	$I_C$	-1	A
Collector Current - Pulse (Note.1)	$I_{CP}$	-1.5	
Collector Power Dissipation	$P_C$	2	W
Junction Temperature	$T_J$	150	$^\circ C$
Storage Temperature range	$T_{stg}$	-55 to 150	

Note.1:  $PW \cong 10ms, Duty Cycle \cong 50\%$

#### ■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CBO}$	$I_C = -100 \mu A, I_E = 0$	-30			V
Collector- emitter breakdown voltage	$V_{CEO}$	$I_C = -1 mA, I_B = 0$	-25			
Emitter - base breakdown voltage	$V_{EBO}$	$I_E = -100 \mu A, I_C = 0$	-5			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = -30 V, I_E = 0$			-0.1	uA
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -1 A, I_B = -100mA$		-0.25	-0.4	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -1 A, I_B = -100mA$		-1	-1.2	
Base - emitter voltage	$V_{BE}$	$V_{CE} = -6V, I_C = -10mA$	-600	-640	-700	mV
DC current gain	$h_{FE}$	$V_{CE} = -1V, I_C = -100mA$	90	200	400	
		$V_{CE} = -1V, I_C = -1A$	50	100		
Collector output capacitance	$C_{ob}$	$V_{CB} = -6V, I_E = 10mA, f = 1MHz$		36		pF
Transition frequency	$f_T$	$V_{CE} = -6V, I_C = -10mA$		110		MHz

Note.1: Pulse test : Pulse width  $\leq 350\mu s, Duty Cycle \leq 2\%$ .

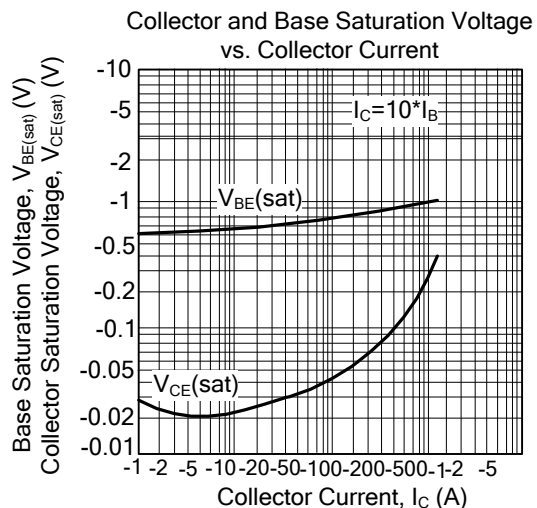
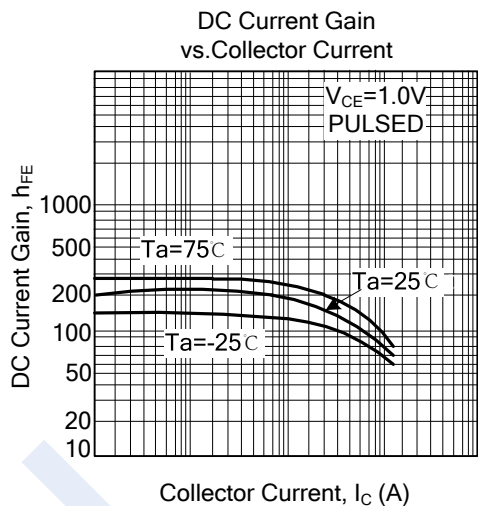
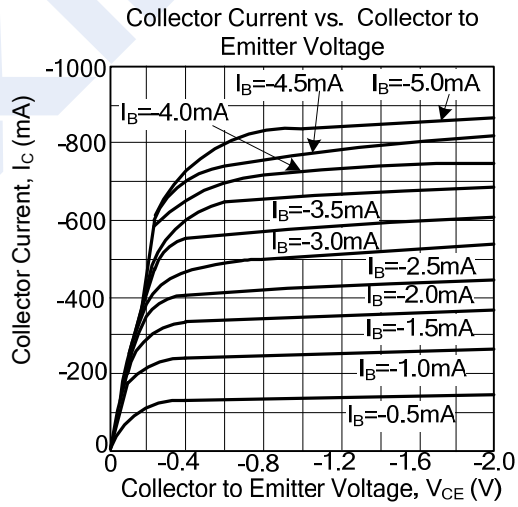
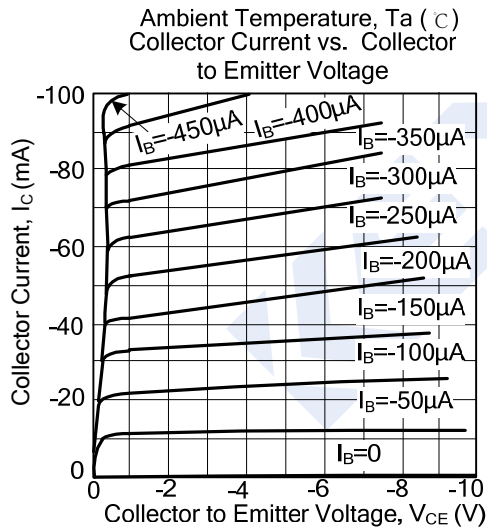
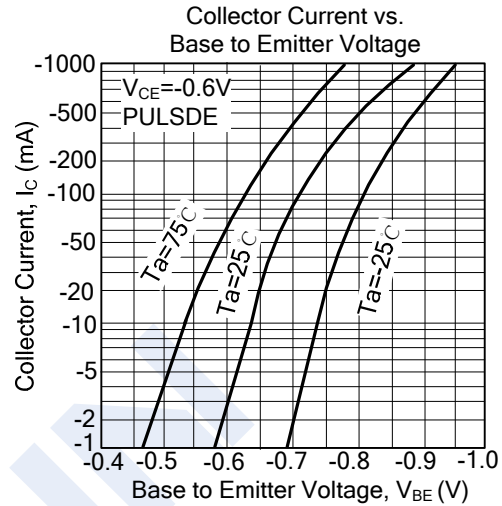
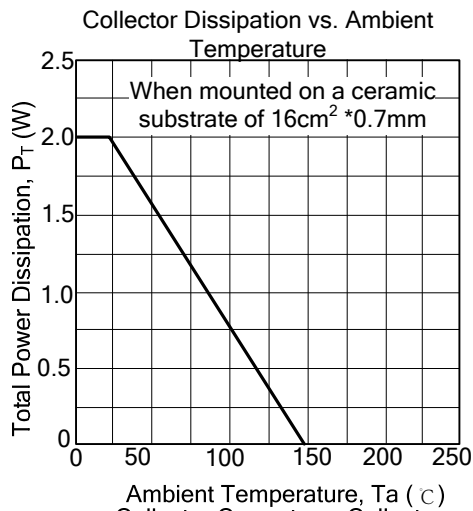
#### ■ Classification of $h_{FE}(1)$

Type	2SB798-M	2SB798-L	2SB798-K
Range	90-180	135-270	200-400
Marking	DM	DL	DK

# PNP Transistors

## 2SB798

■ Typical Characteristics



## PNP Transistors

## 2SB798

## ■ Typical Characteristics

