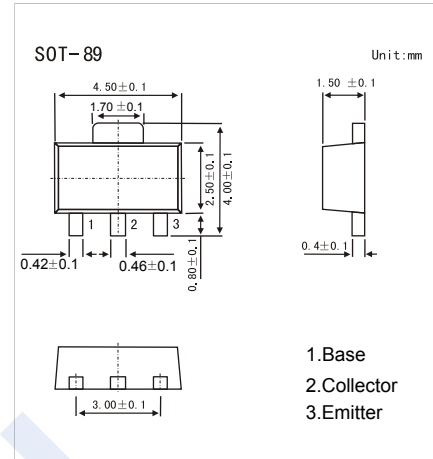


PNP Transistors

2SB798-HF

■ 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. ($V_{CE} = -1.0V, I_C = -1.0A$)
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



■ 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 $\leq 350\mu s, Duty\ Cycle \leq 2\%$.

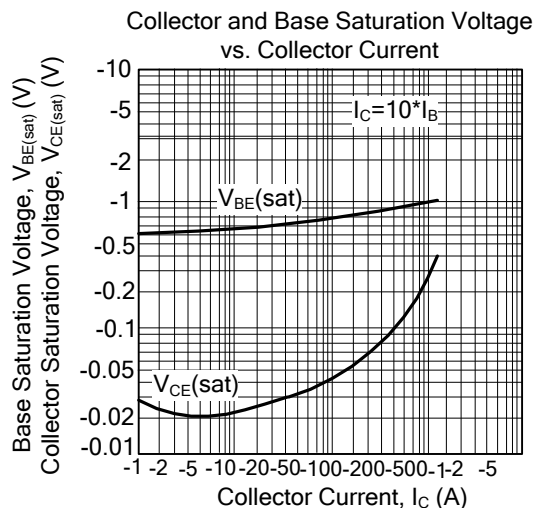
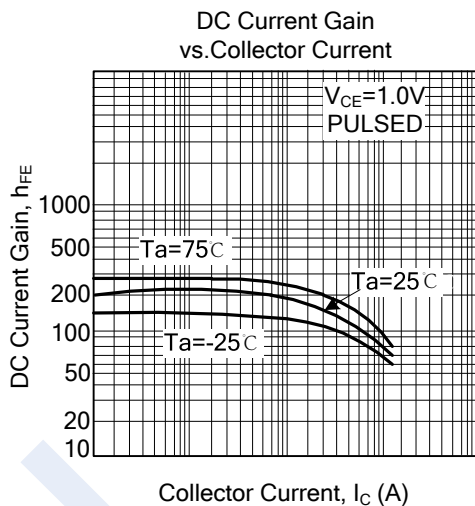
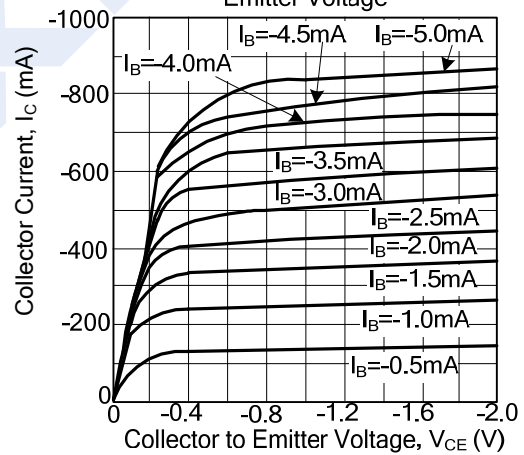
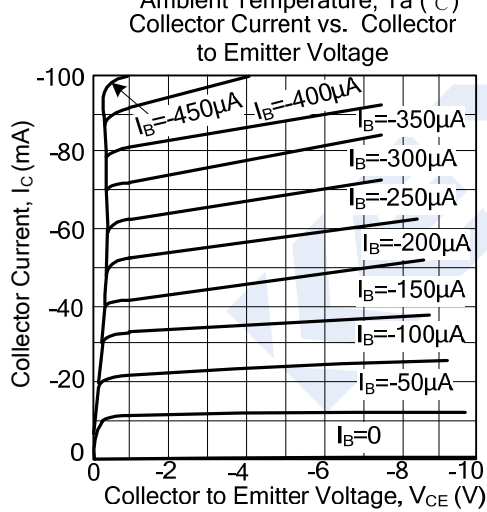
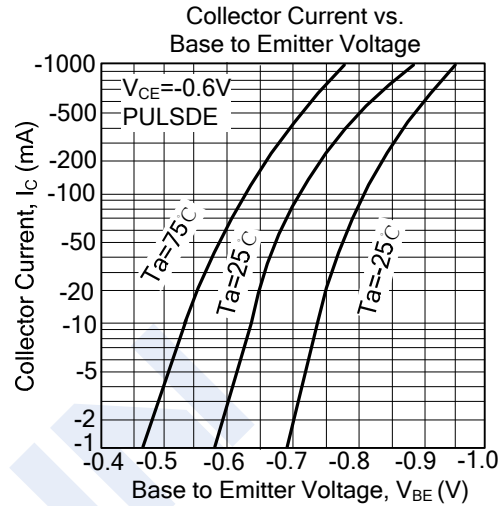
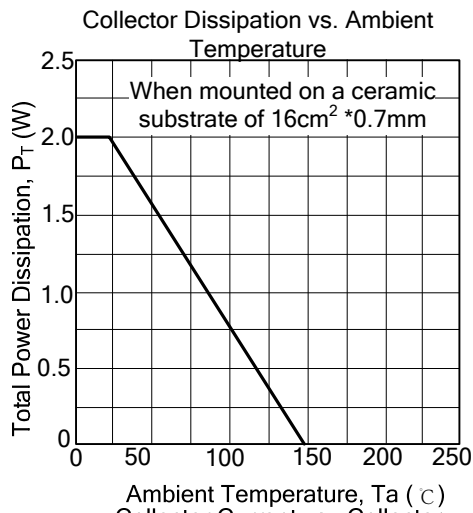
■ Classification of $h_{fe}(1)$

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

PNP Transistors

2SB798-HF

■ Typical Characteristics



PNP Transistors

2SB798-HF

■ Typical Characteristics

