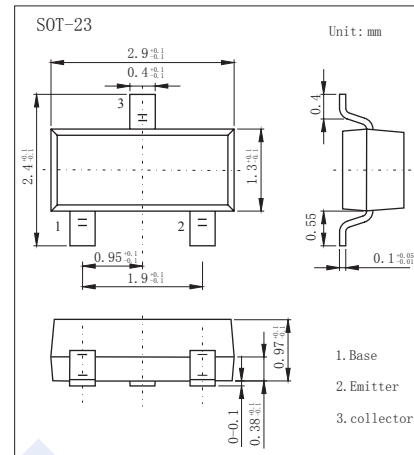


PNP Transistors

2SA1226

■ Features

- Collector Current Capability $I_c = -30\text{mA}$
- Collector Emitter Voltage $V_{CE0} = -40\text{V}$

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	-40	V
Collector - Emitter Voltage	V_{CE0}	-40	
Emitter - Base Voltage	V_{EB0}	-5	
Collector Current - Continuous	I_c	-30	mA
Collector Power Dissipation	P_c	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_c = -100 \mu\text{A}$, $I_E = 0$	-40			V
Collector- emitter breakdown voltage	V_{CE0}	$I_c = -1 \text{mA}$, $I_B = 0$	-40			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -100 \mu\text{A}$, $I_c = 0$	-5			
Collector-base cut-off current	I_{CB0}	$V_{CB} = -40 \text{V}$, $I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EB0}	$V_{EB} = -4 \text{V}$, $I_c = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = -10 \text{mA}$, $I_B = -1 \text{mA}$			-0.3	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_c = -10 \text{mA}$, $I_B = -1 \text{mA}$			-1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = -10 \text{V}$, $I_c = -10 \text{mA}$	-0.67			
DC current gain	h_{FE}	$V_{CE} = -10 \text{V}$, $I_c = -1 \text{mA}$	40		180	
Noise Figure	NF	$V_{CE} = -10 \text{V}$, $I_c = -1 \text{mA}$, $R_g = 100 \text{k}\Omega$, $f = 1 \text{MHz}$		3.5		dB
Collector output capacitance	C_{ob}	$V_{CB} = -10 \text{V}$, $I_E = 0$, $f = 1 \text{MHz}$			2	pF
Transition frequency	f_T	$V_{CE} = -10 \text{V}$, $I_E = 1 \text{mA}$	250			MHz

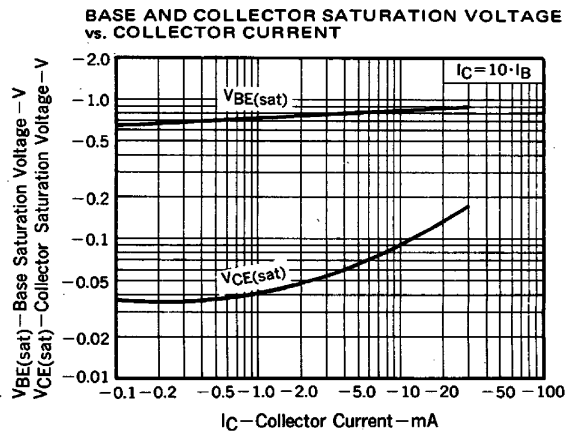
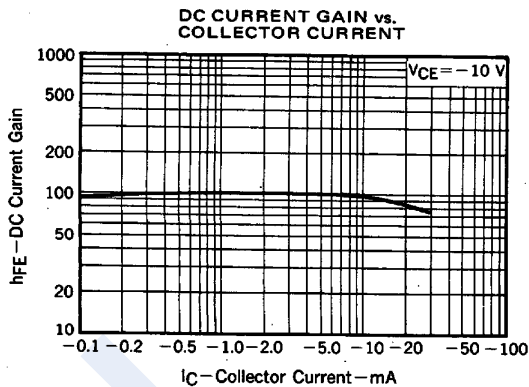
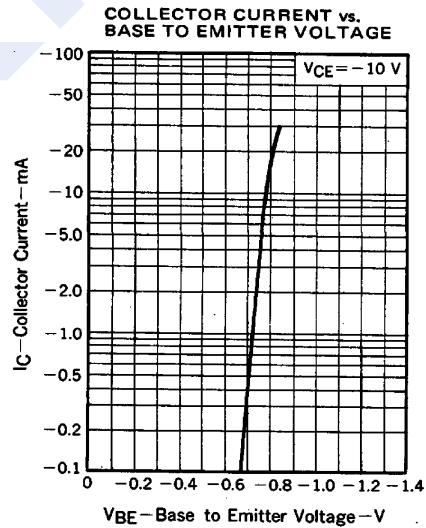
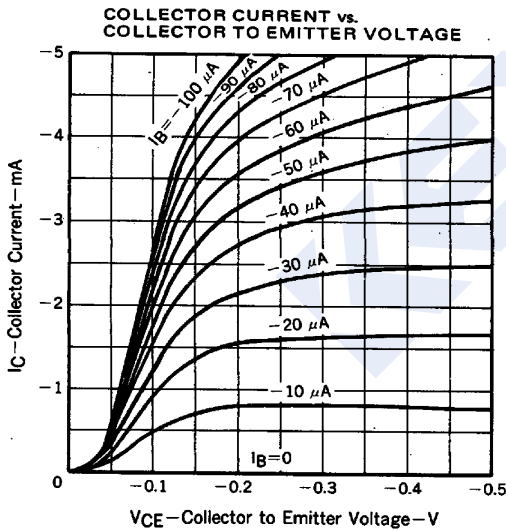
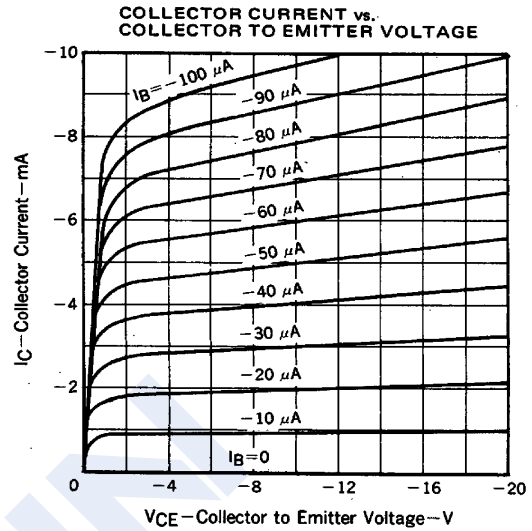
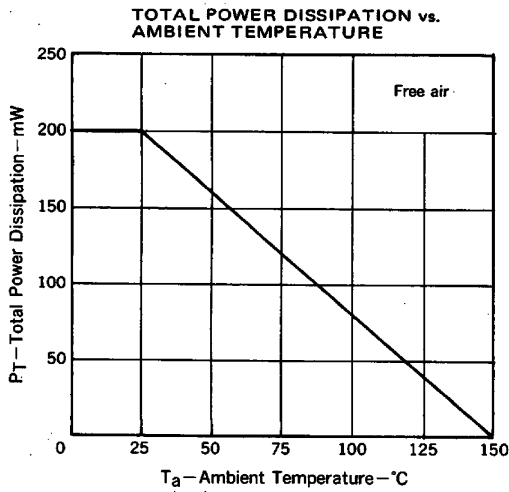
■ Classification of h_{FE}

Type	2SA1226-E2	2SA1226-E3	2SA1226-E4
Range	40-80	60-120	90-180
Marking	E2	E3	E4

PNP Transistors

2SA1226

■ Typical Characteristics



PNP Transistors

2SA1226

■ Typical Characteristics

