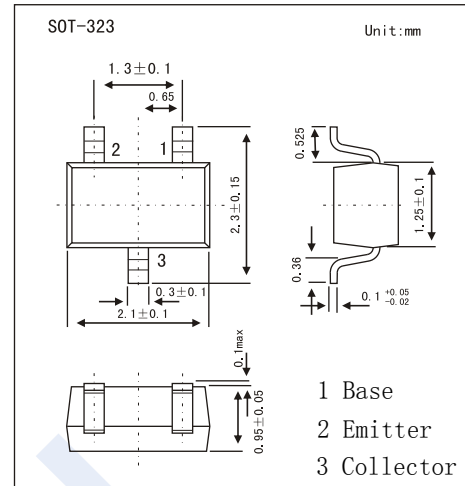


PNP Transistors

2SB1475

■ Features

- Super Miniature Package
- Low collector-emitter saturation voltage
- High DC Current



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	-25	V
Collector - Emitter Voltage	V_{CE0}	-16	
Emitter - Base Voltage	V_{EB0}	-6	
Collector Current - Continuous	I_C	-0.5	A
Collector Power Dissipation	P_C	150	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}	$I_C = -100 \mu\text{A}$, $I_E = 0$	-25			V
Collector- emitter breakdown voltage	V_{CE0}	$I_C = -1 \text{ mA}$, $I_B = 0$	-16			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -100 \mu\text{A}$, $I_C = 0$	-6			
Collector-base cut-off current	I_{CB0}	$V_{CB} = -25\text{V}$, $I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EB0}	$V_{EB} = -6\text{V}$, $I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100 \text{ mA}$, $I_B = -10 \text{ mA}$			-0.12	V
		$I_C = -500 \text{ mA}$, $I_B = -20 \text{ mA}$		-0.25	-0.4	
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -2 \text{ A}$, $I_B = -100 \text{ mA}$		-0.95	-1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = -1\text{V}$, $I_C = -10 \text{ mA}$	-0.6		-0.7	
DC current gain	h_{FE}	$V_{CE} = -1\text{V}$, $I_C = -100 \text{ mA}$	110		400	
		$V_{CE} = -1\text{V}$, $I_C = -500 \text{ mA}$	100			
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$			15	pF
Transition frequency	f_T	$V_{CE} = -3\text{V}$, $I_E = 100 \text{ mA}$	50			MHz

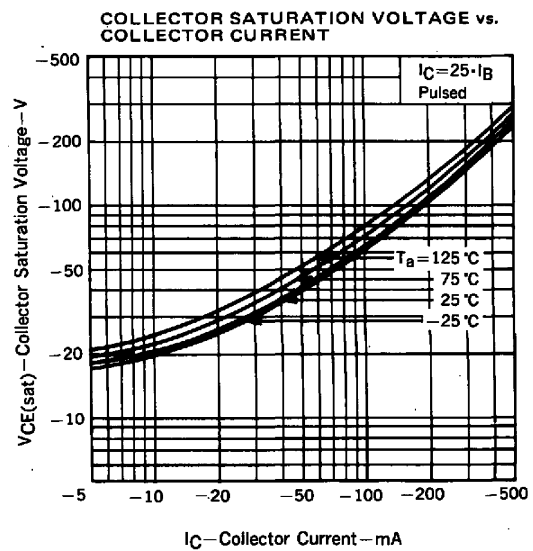
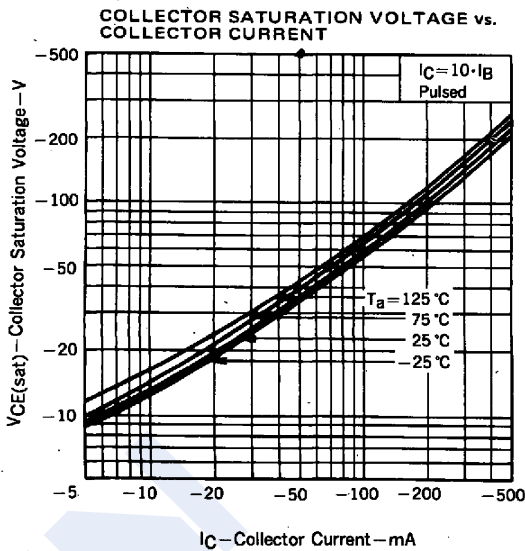
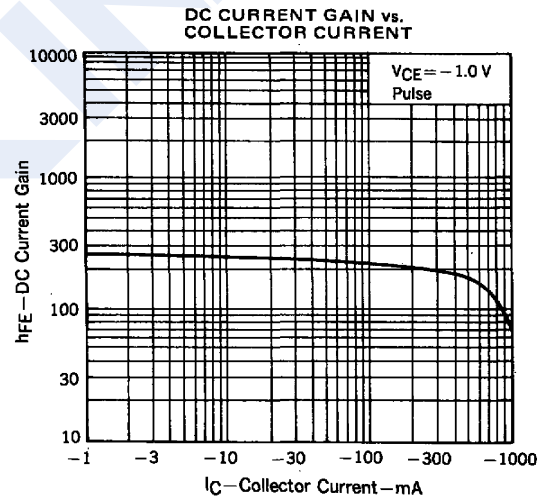
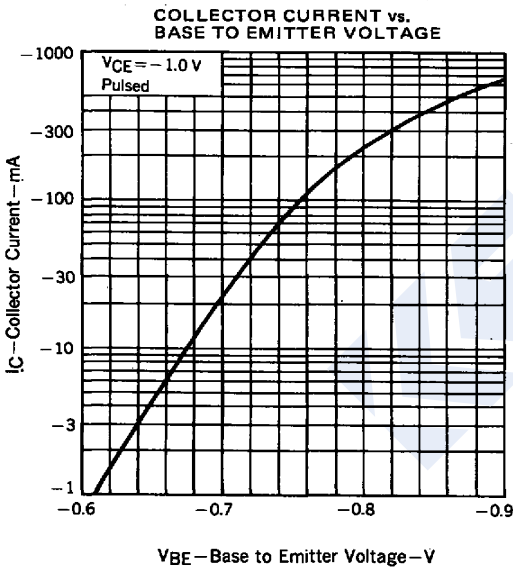
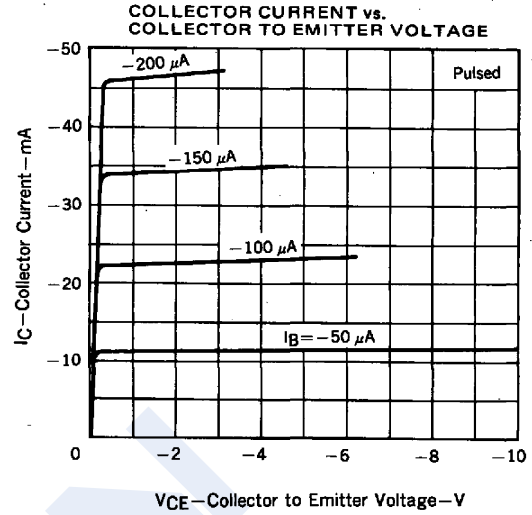
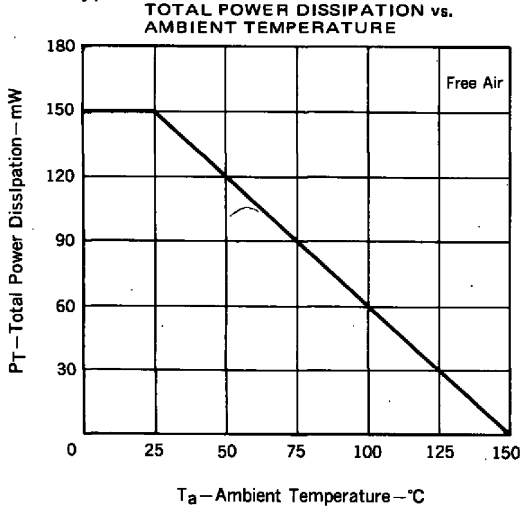
■ Classification of $h_{fe}(1)$

Type	2SB1427-B42	2SB1427-B43	2SB1427-B44
Range	110-240	190-320	270-400
Marking	B42	B43	B44

PNP Transistors

2SB1475

Typical Characteristics



PNP Transistors

2SB1475

■ Typical Characteristics

