



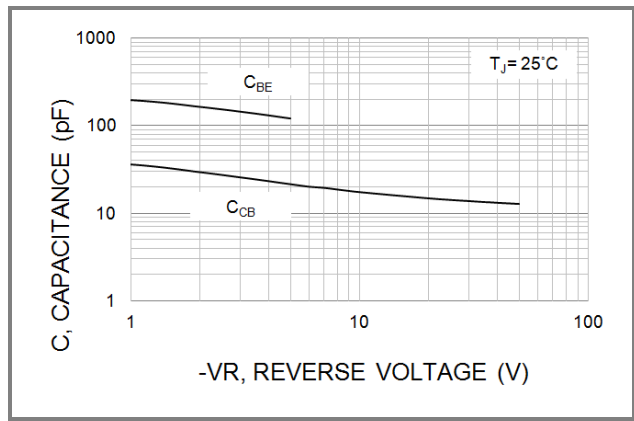
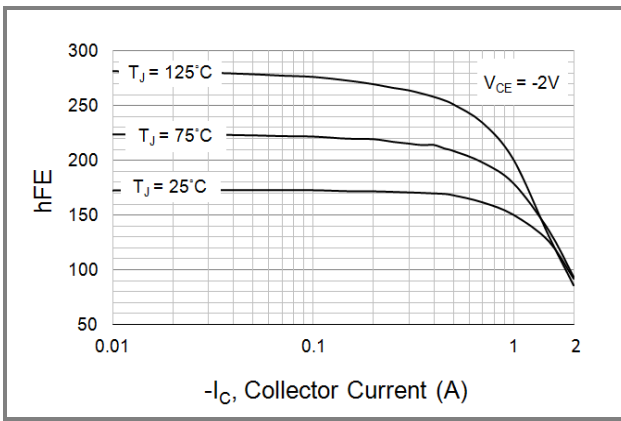
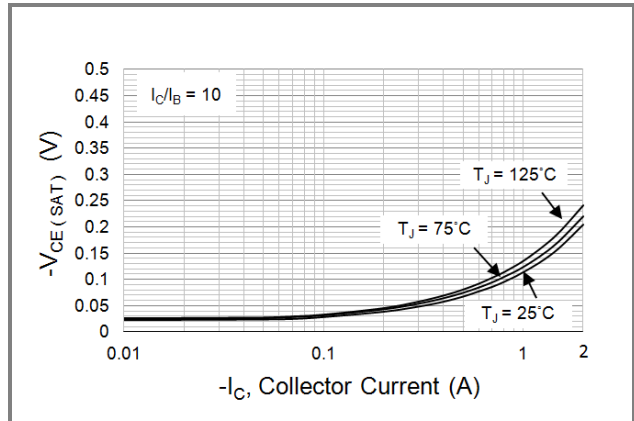
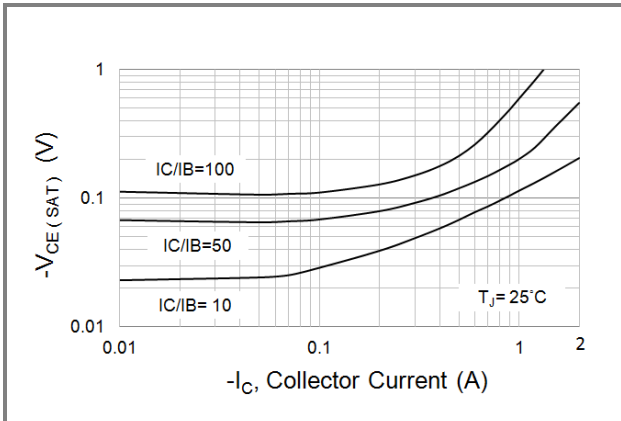
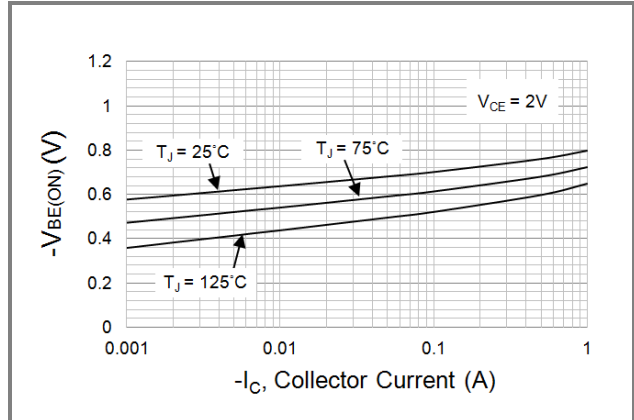
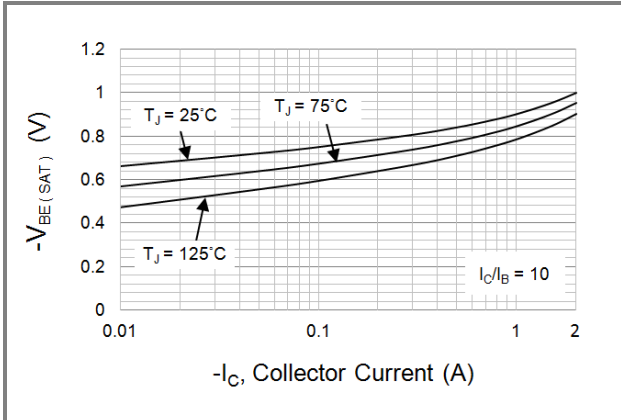
## 2SB1197A

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
<b>OFF Characteristics</b>						
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> = -10mA, I <sub>B</sub> = 0A	-50	-	-	V
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> = -0.1mA, I <sub>E</sub> = 0A	-50	-	-	V
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	I <sub>E</sub> = -0.1mA, I <sub>C</sub> = 0A	-7	-9.7	-	V
Collector-Base Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> = -30V, I <sub>E</sub> = 0A	-	-1	-100	nA
Emitter-Base Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> = -4V	-	-1	-100	nA
Collector-Emitter Cutoff Current	I <sub>CES</sub>	V <sub>CES</sub> = -30V	-	-1	-100	nA
<b>ON characteristics</b>						
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> = -2V I <sub>C</sub> = -1mA	100	-	-	-
		V <sub>CE</sub> = -2V I <sub>C</sub> = -0.5A	100	165	300	
		V <sub>CE</sub> = -2V I <sub>C</sub> = -1A	100	-	-	
		V <sub>CE</sub> = -2V I <sub>C</sub> = -2A	50	-	-	
Collector-Emitter Saturation Voltage	V <sub>CE(SAT)</sub>	I <sub>C</sub> = -0.5A, I <sub>B</sub> = -50mA	-	-67	-150	mV
		I <sub>C</sub> = -1A, I <sub>B</sub> = -100mA	-	-112	-200	
		I <sub>C</sub> = -2A, I <sub>B</sub> = -200mA	-	-203	-500	
Base-Emitter Saturation voltage	V <sub>BE(SAT)</sub>	I <sub>C</sub> = -1A, I <sub>B</sub> = -100mA	-	-0.88	-1.1	V
Base-Emitter Turn-on voltage	V <sub>BE(on)</sub>	I <sub>C</sub> = -1A, V <sub>CE</sub> = -2V	-	-0.77	-1.1	
Transition Frequency	f <sub>T</sub>	I <sub>C</sub> = -100mA, V <sub>CE</sub> = -5V f=100MHz	-	180	-	MHz
Collector Output Capacitance	C <sub>OB</sub>	V <sub>CB</sub> = -10V I <sub>E</sub> = 0A, f=1MHz	-	20	-	pF

# 2SB1197A

## TYPICAL CHARACTERISTIC CURVES

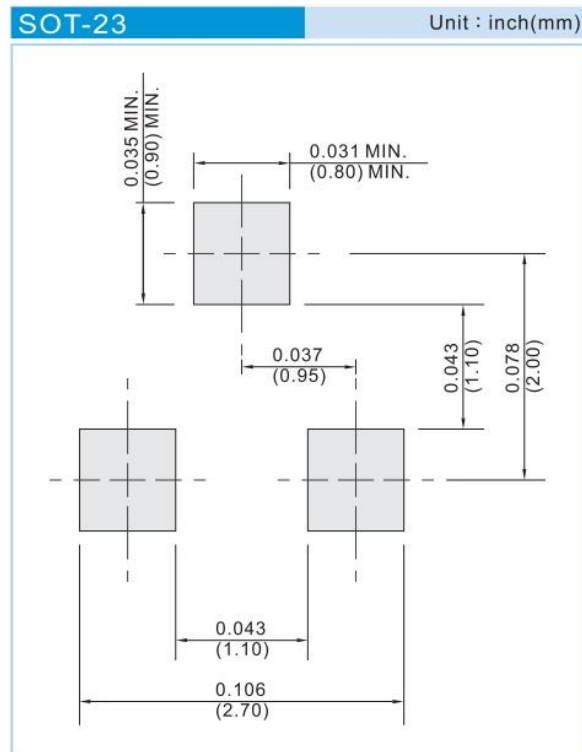


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## Product and Packing Information

Part No.	Package Type	Packing Type	Marking
2SB1197A	SOT-23	3K pcs / 7" reel	B97
2SB1197A	SOT-23	12K pcs / 13" reel	B97

## MOUNTING PAD LAYOUT



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