

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



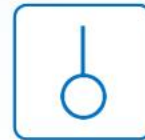
MOS



LDO



Diode



Sensor



DC-DC

Product Specification

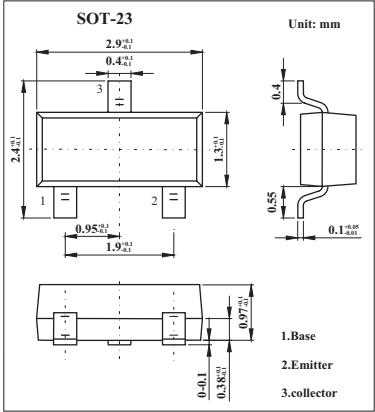
▶ Domestic	Part Number	BFT93
▶ Overseas	Part Number	BFT93
▶ Equivalent	Part Number	BFT93

EV is the abbreviation of name EVVO

PNP Epitaxial Silicon Transistor

■ Features

- High f_T : $f_T = 5.0$ GHz TYP.
- High gain
 $|S_{21e}|^2 = 15.0$ dB TYP. @ $f = 1.0$ GHz, $V_{CE} = -8$ V, $I_C = -20$ mA
- High-speed switching characteristics



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

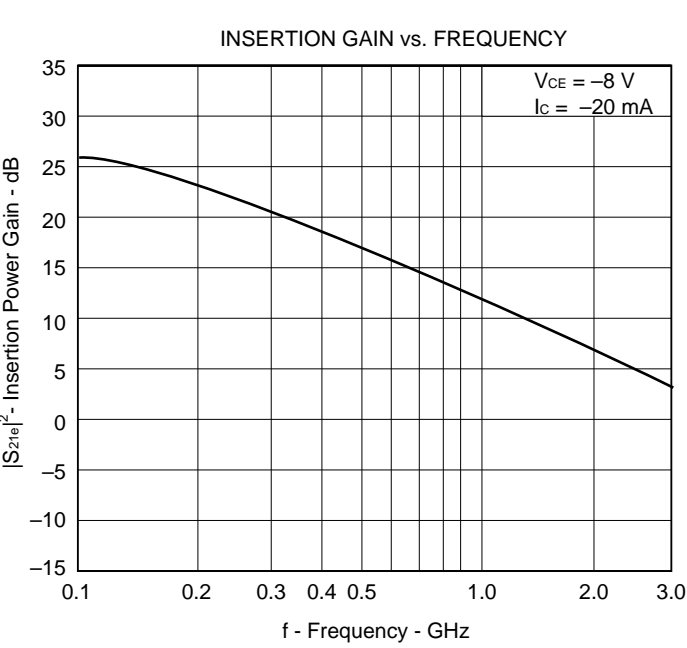
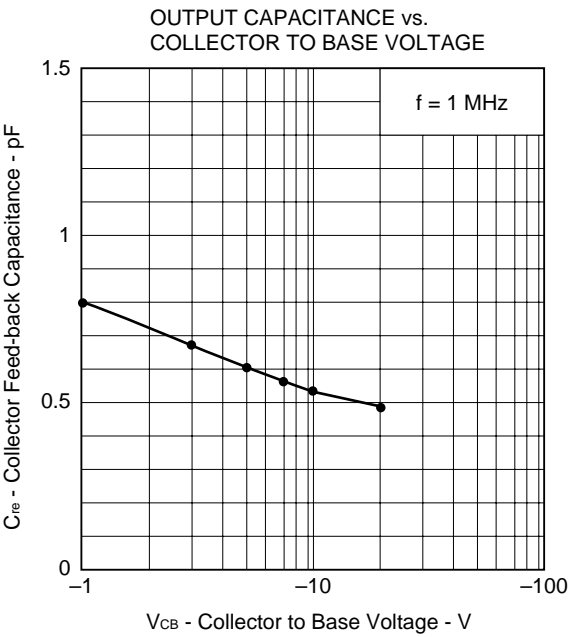
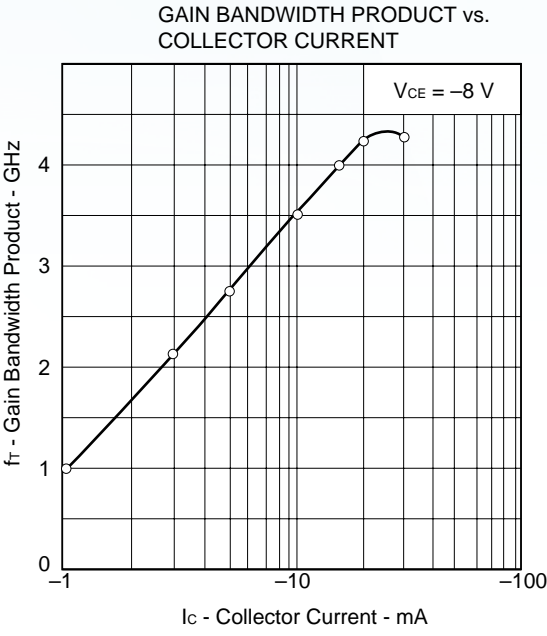
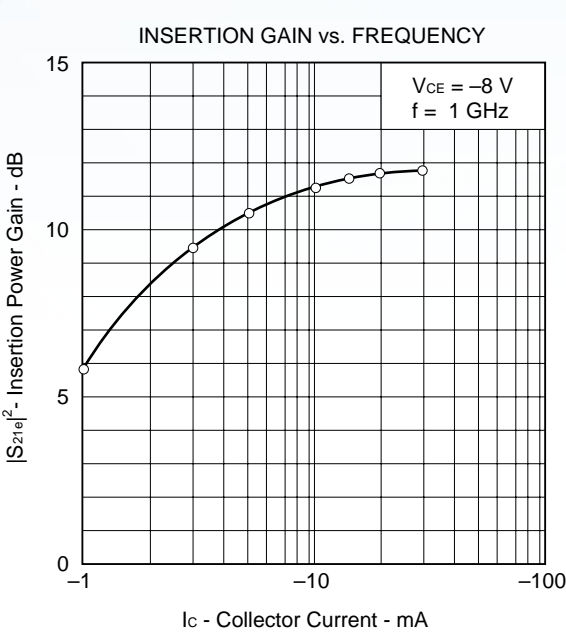
Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	-20	V
Collector-emitter voltage	V_{CEO}	-12	V
Emitter-base voltage	V_{EBO}	-3.0	V
Collector current	I_C	-50	mA
Total power dissipation	P_T	200	mW
Junction temperature	T_j	150	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^{\circ}\text{C}$

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

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -10$ V			-0.1	μA
Emitter cutoff current	I_{EBO}	$V_{EB} = -1$ V			-0.1	μA
DC current gain	h_{FE}	$V_{CE} = -8$ V, $I_C = -20$ mA	35		200	
Gain Bandwidth Product	f_T	$V_{CE} = -8$ V, $I_C = -20$ mA, $f = 1$ GHz		8.0		V
Collector Capacitance	C_{re}^*	$V_{CB} = -10$ V, $I_E = 0$, $f = 1$ MHz		0.5		V
Insertion Power Gain	$ S_{21e} ^2$	$V_{CE} = -8$ V, $I_C = -20$ mA, $f = 1.0$ GHz		15.0		MHz
Noise Figure	NF	$V_{CE} = -8$ V, $I_C = -3$ mA, $f = 1$ GHz		1.5		pF

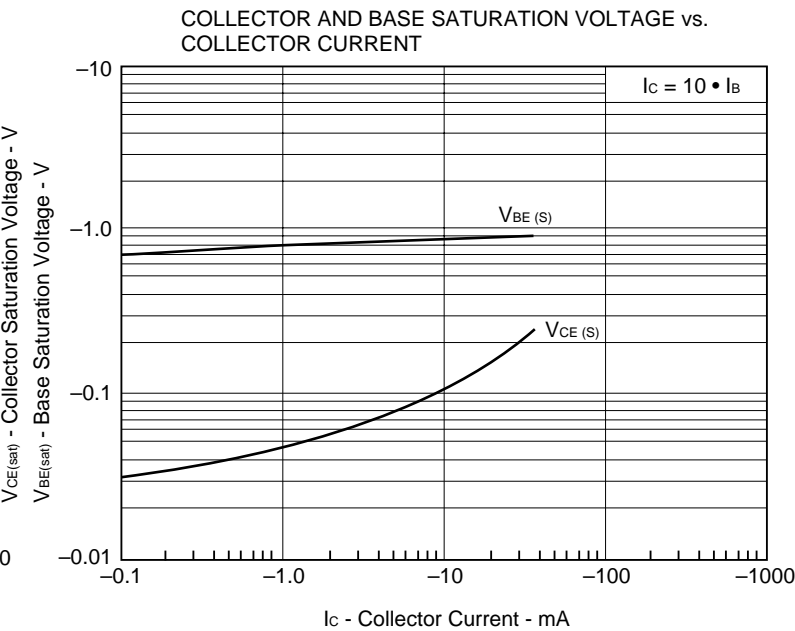
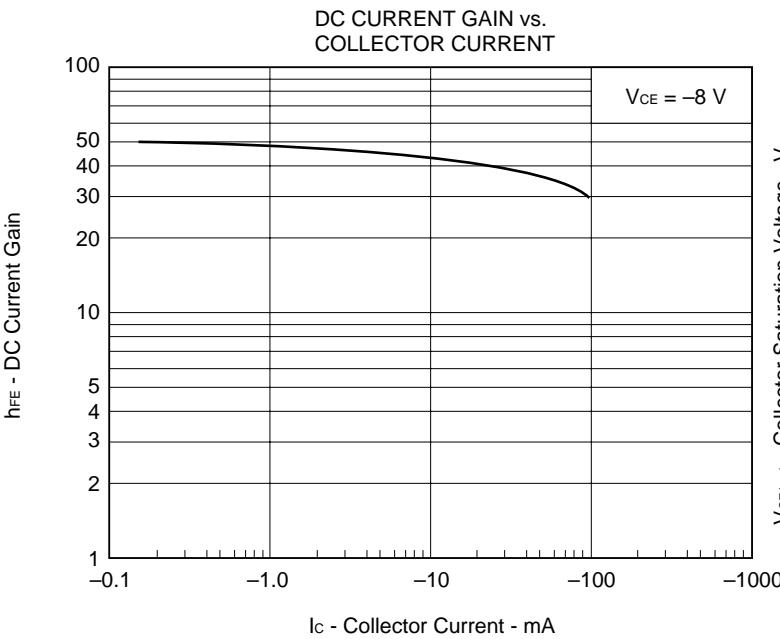
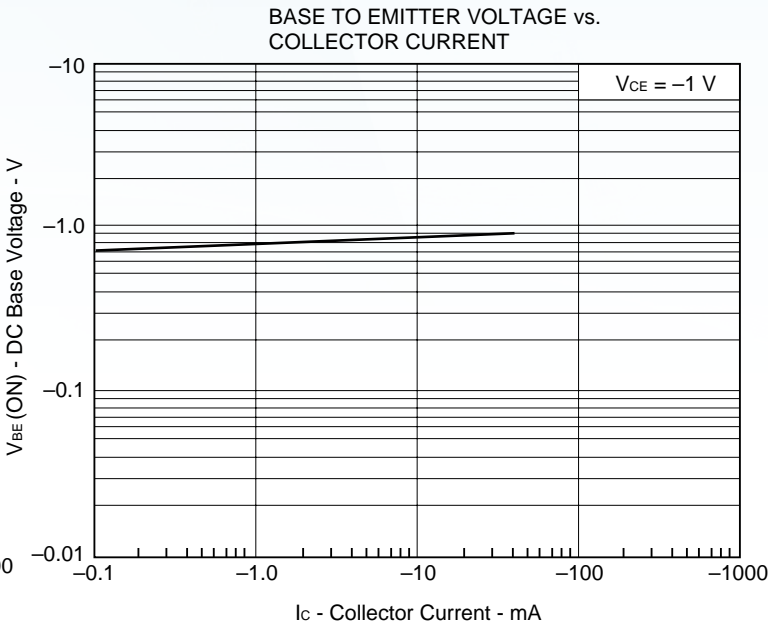
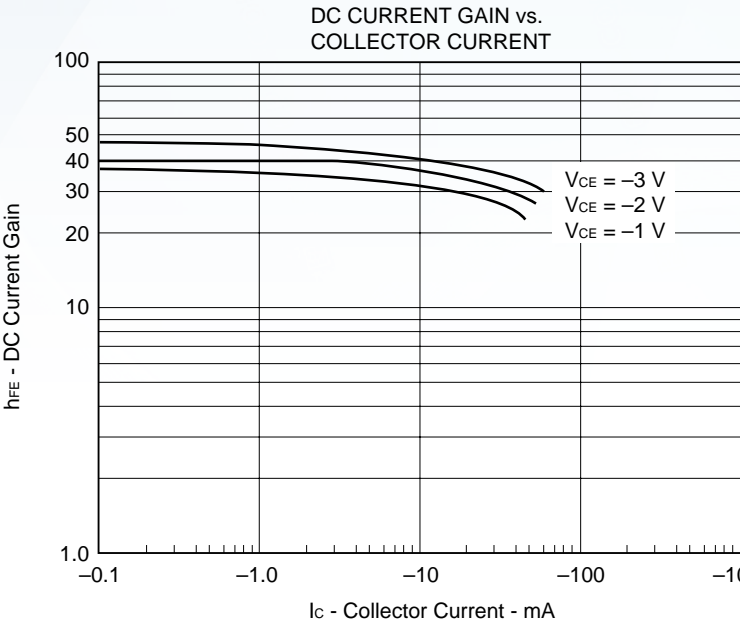
PNP Epitaxial Silicon Transistor

TYPICAL CHARACTERISTICS



PNP Epitaxial Silicon Transistor

TYPICAL CHARACTERISTICS



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