

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	EVBC807-XX-S1
▶ Overseas	Part Number	BC807-XX
▶ Equivalent	Part Number	BC807-XX

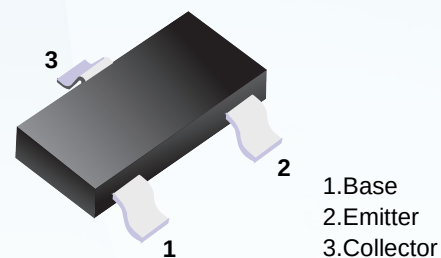
"S1" means SOT-23

EV is the abbreviation of name EVVO

■ PNP Transistors

■ Features

- Ideally suited for automatic insertion
- Epitaxial planar die construction
- Complementary NPN type available(BC817)



■ Simplified outline(SOT-23)

■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	-50	V
Collector - Emitter Voltage	V _{CEO}	-45	
Emitter - Base Voltage	V _{EB0}	-5	
Collector Current - Continuous	I _C	-0.5	A
Collector Power Dissipation	P _C	0.3	W
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

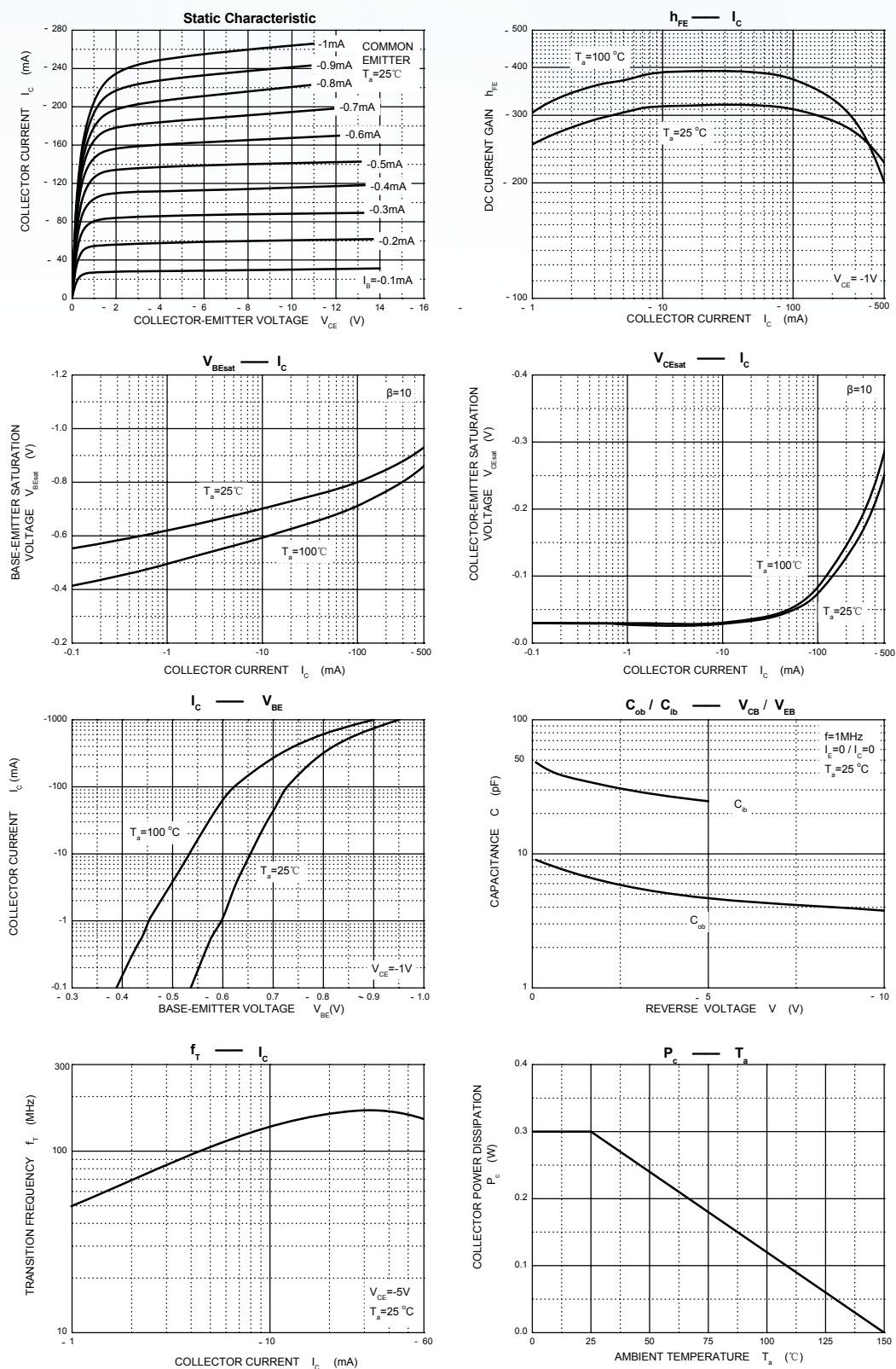
■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _C = -100 uA, I _E =0	-50			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = -10 mA, I _B =0	-45			
Emitter - base breakdown voltage	V _{EB0}	I _E = -100 uA, I _C =0	-5			
Collector-base cut-off current	I _{CB0}	V _{CB} = -45 V, I _E =0			-0.1	uA
Collector- emittercut-off current	I _{CEO}	V _{CE} = -40 V, I _B =0			-0.2	
Emitter cut-off current	I _{EB0}	V _{EB} = -4V, I _C =0			-0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500 mA, I _B = -50mA			-0.7	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C = -500 mA, I _B = -50mA			-1.2	
DC current gain	h _{fe} (1)	V _{CE} = -1V, I _C = -100mA	100		630	
	h _{fe} (2)	V _{CE} = -1V, I _C = -500mA	40			
Transition frequency	f _T	V _{CE} = -5V, I _C = -10mA,f=100MHz	100			MHz

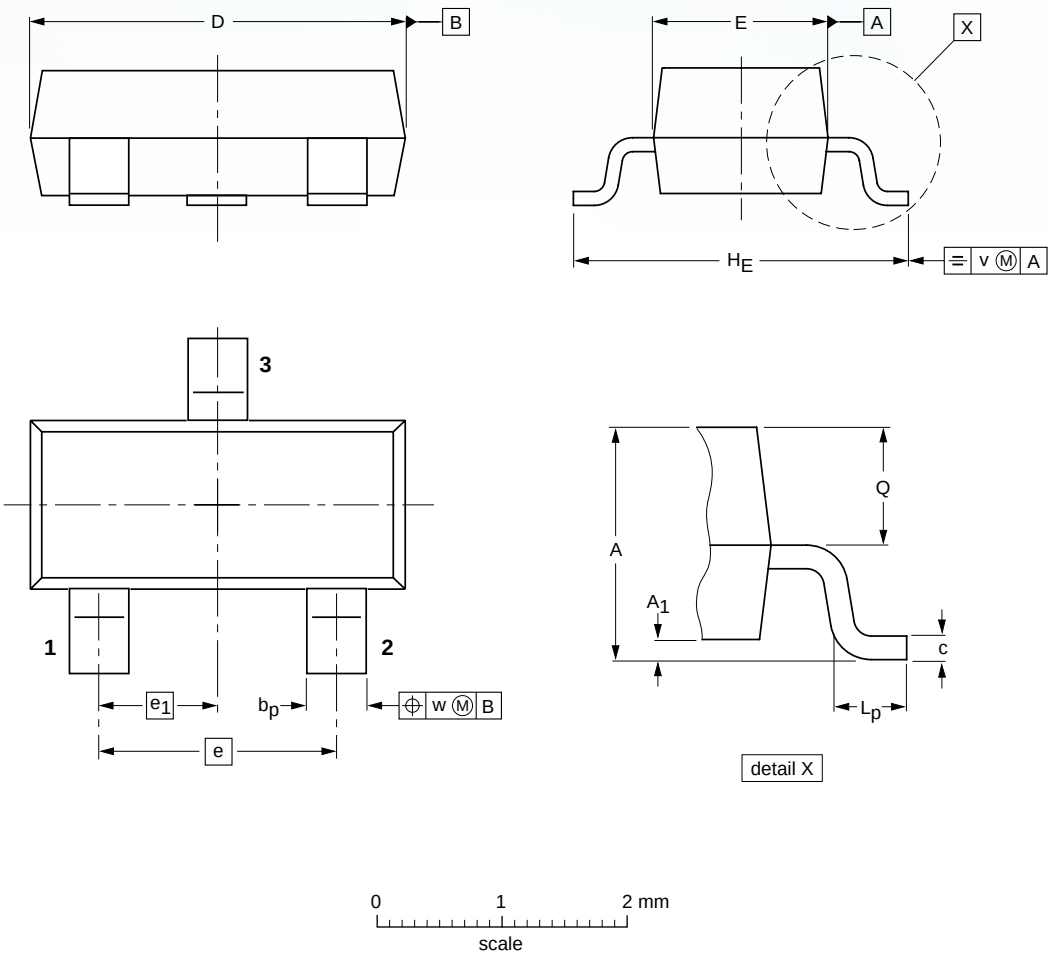
■ Classification of h_{fe}(1)

Rank	EVBC807-16-S1	EVBC807-25-S1	EVBC807-40-S1
Range	100-250	160-400	250-630
Marking	5A	5B	5C

■ Typical Characteristics



■ SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max.	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1

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