

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	EV2SC2223-S1
▶ Overseas	Part Number	2SC2223
▶ Equivalent	Part Number	2SC2223

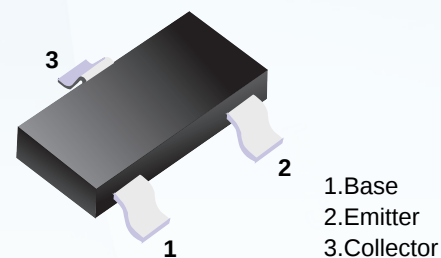
"S1" means SOT-23

EV is the abbreviation of name EVVO

■ NPN Transistors

■ Features

- High current gain bandwidth product.
- power dissipation.(PC=200mW)



■ Simplified outline(SOT-23)

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V _{CB0}	30	V
Collector to Emitter Voltage	V _{CEO}	15	V
Emitter to Base Voltage	V _{EB0}	5	V
Collector Current to Continuous	I _c	50	mA
Collector Power Dissipation	P _c	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to 150	°C

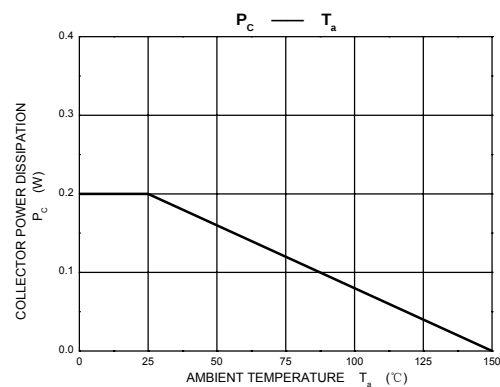
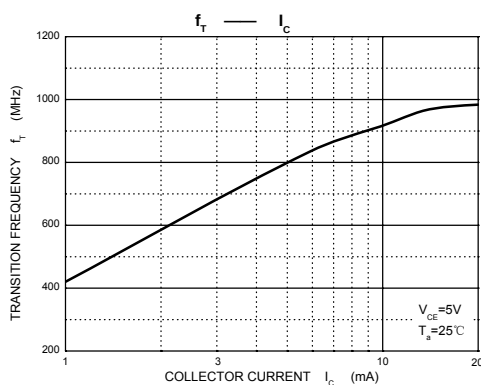
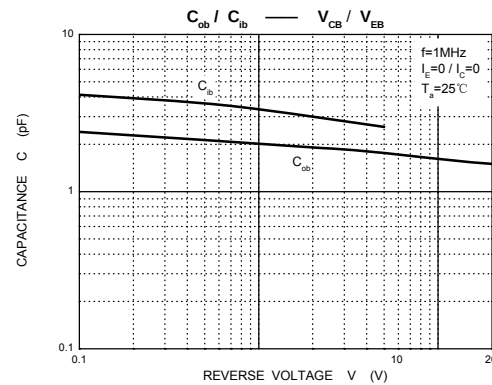
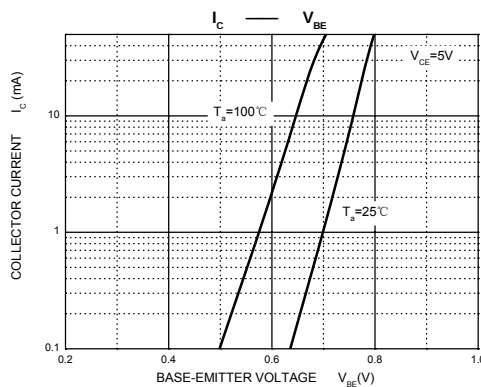
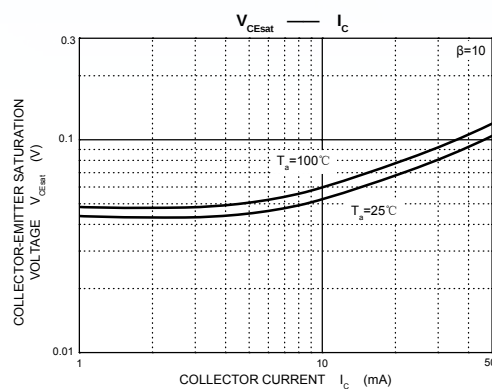
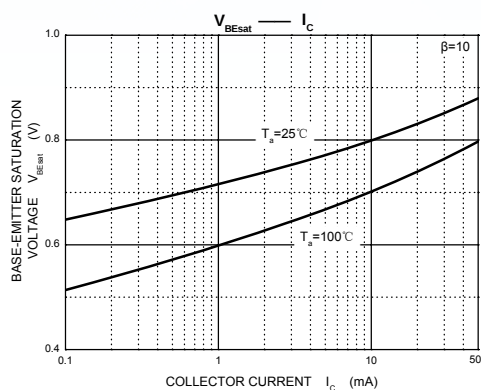
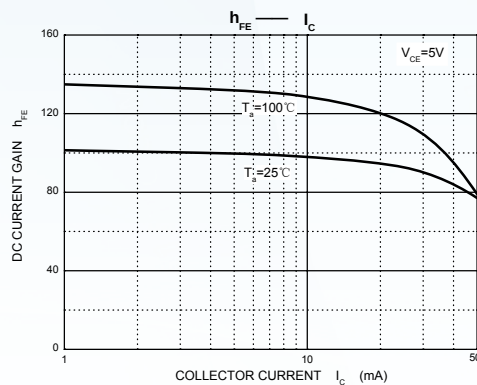
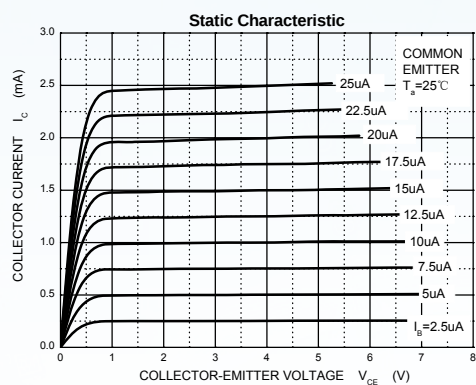
■ Electrical Characteristics Ta = 25

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector to base breakdown voltage	V _{(BR)CBO}	I _c = 100 uA, I _E =0	30			V
Collector to emitter breakdown voltage	V _{(BR)CEO}	I _c = 1mA, I _B =0	15			V
Emitter to base breakdown voltage	V _{(BR)EBO}	I _E =100 uA, I _C =0	5			V
Collector cut to off current	I _{CBO}	V _{CB} =12V, I _E =0			0.05	uA
Emitter cut to off current	I _{EBO}	V _{EB} = 3V, I _C =0			0.1	uA
DC current gain	h _{FE}	V _{CE} =5V, I _c = 1mA	70		190	
Collector to emitter saturation voltage	V _{CE(sat)}	I _c =10mA, I _B = 1mA			0.5	V
Base to emitter saturation voltage	V _{BE(sat)}	I _c =10mA, I _B = 1mA			1.4	V
Transition frequency	f _T	V _{CE} =5V, I _c = 5mA, f=400MHz	600			MHz

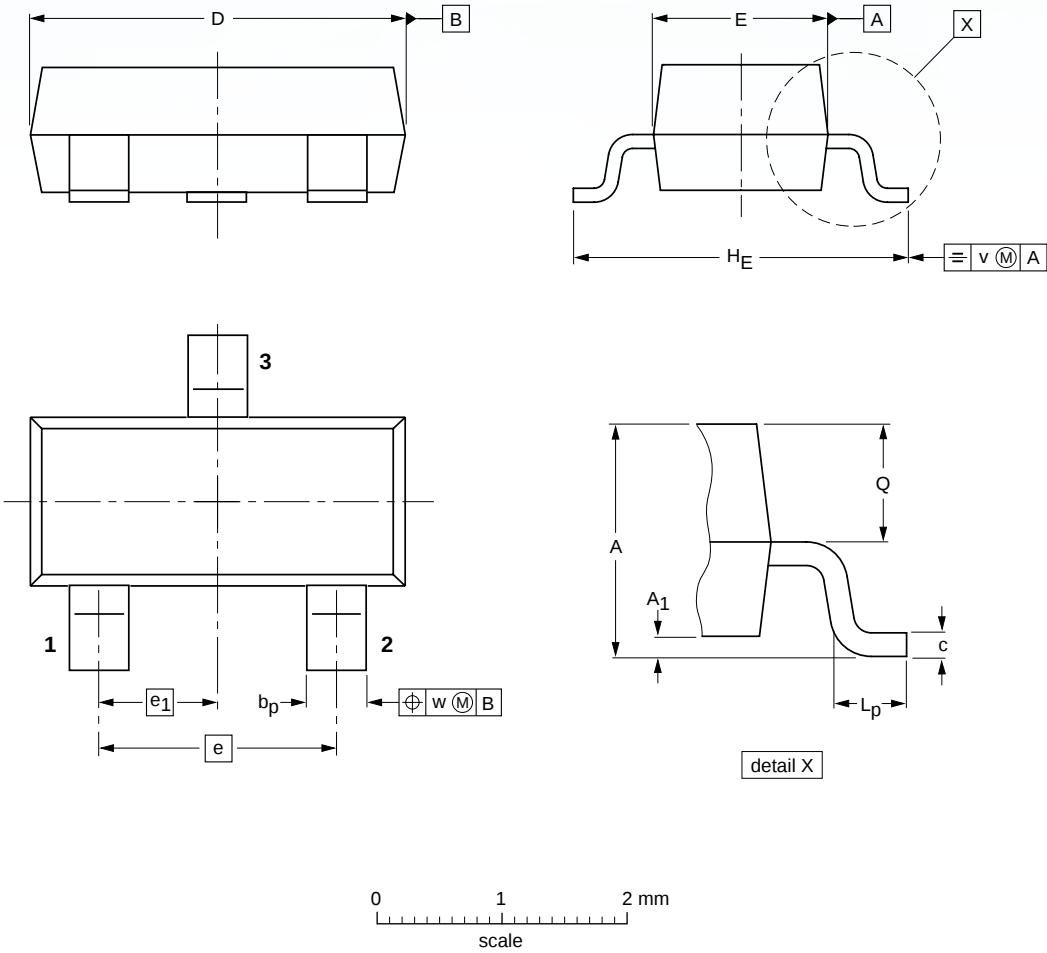
■ Classification of h_{FE}

Type	EV2SC2223-S1	EV2SC2223-S1
Range	70-105	105-190
Marking	F14	

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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