

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	EV2SA1576A-X-SM
▶ Overseas	Part Number	2SA1576A-X
▶ Equivalent	Part Number	2SA1576A-X

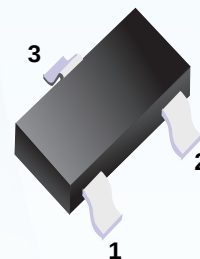
"SM" means SOT-323

EV is the abbreviation of name EVVO

■ PNP Transistor

■ Features

- Excellent h_{FE} linearity
- Complements the 2SC4081



1.Base
2.Emitter
3.Collector

■ Simplified outline(SOT-323)

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-60	V
Collector - Emitter Voltage	V_{CEO}	-50	
Emitter - Base Voltage	V_{EBO}	-6	
Collector Current - Continuous	I_C	-150	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-55 to 150	

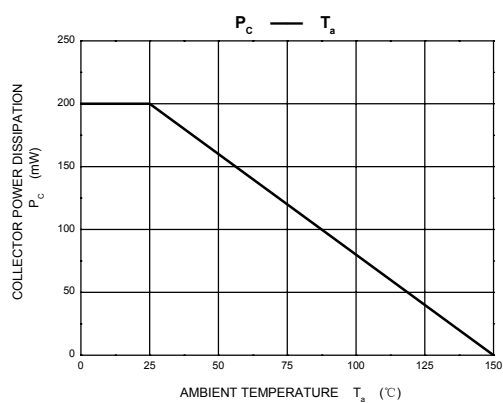
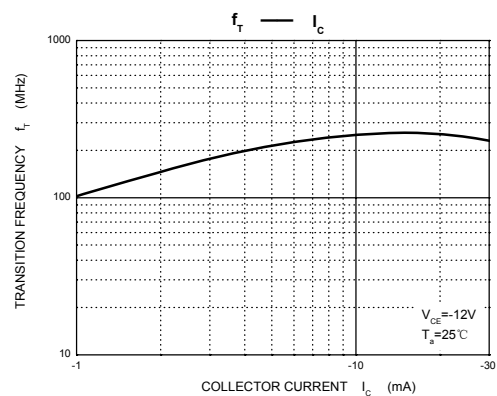
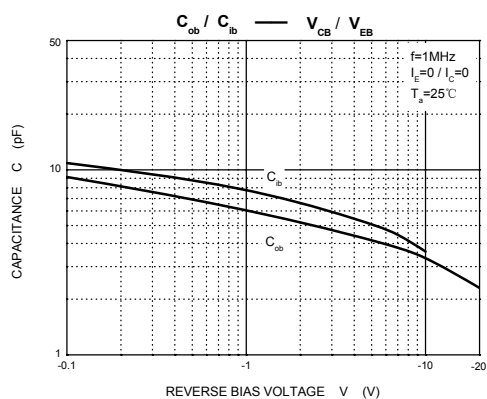
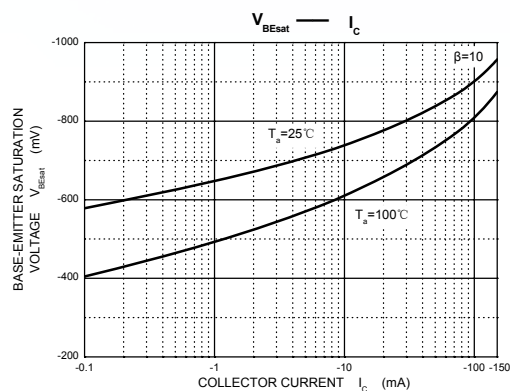
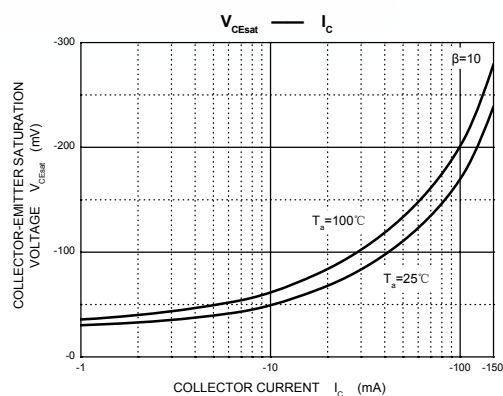
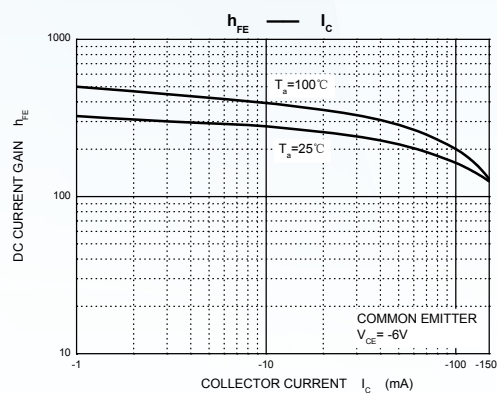
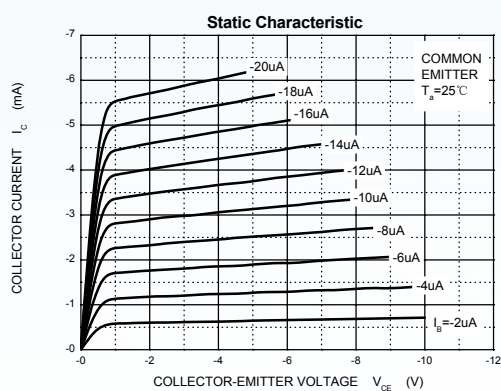
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = -50 \mu\text{A}$, $I_E = 0$	-60			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -1 \text{ mA}$, $I_B = 0$	-50			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -50 \mu\text{A}$, $I_C = 0$	-6			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -60 \text{ V}$, $I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -6 \text{ V}$, $I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -50 \text{ mA}$, $I_B = -5 \text{ mA}$			-0.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -50 \text{ mA}$, $I_B = -5 \text{ mA}$			-1.2	
DC current gain	h_{FE}	$V_{CE} = -6 \text{ V}$, $I_C = -1 \text{ mA}$	120		560	
Collector output capacitance	C_{ob}	$V_{CB} = -12 \text{ V}$, $I_E = 0$, $f = 1 \text{ MHz}$		4	5	pF
Transition frequency	f_T	$V_{CE} = -12 \text{ V}$, $I_C = -2 \text{ mA}$, $f = 30 \text{ MHz}$		140		MHz

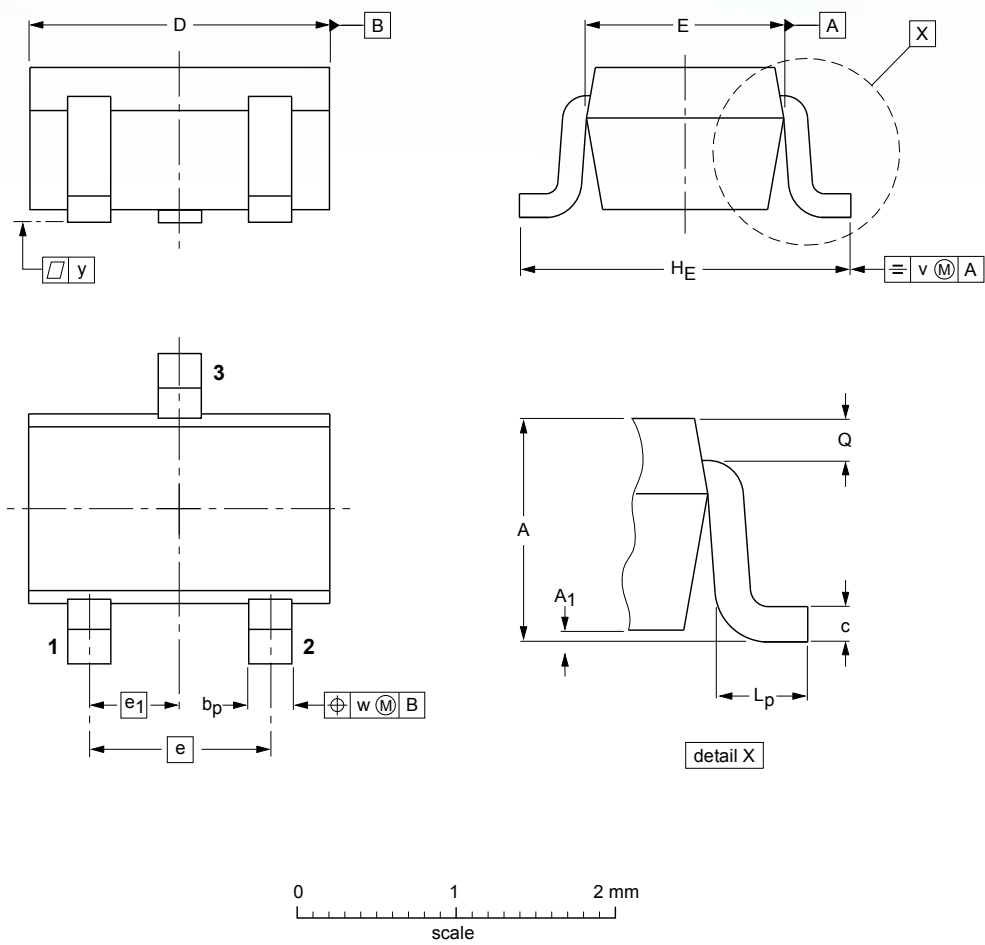
■ Classification of h_{FE}

Type	EV2SA1576A-Q-SM	EV2SA1576A-R-SM	EV2SA1576A-S-SM
Range	120-270	180-390	270-560
Marking	FQ	FR	FS

Typical Characteristics



■ SOT-323



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 0.8	0.1	0.4 0.3	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.23 0.13	0.2	0.2

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