EVVOSEMI®
THINK CHANGE DO

ESD TVS MOS LDO Diode Sensor DC-DC

Product Specification

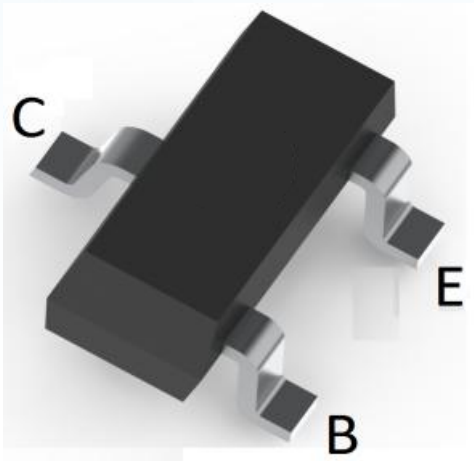
Domestic Part Number	EV2SA1082-S1
Overseas Part Number	2SA1082
Equivalent Part Number	2SA1082

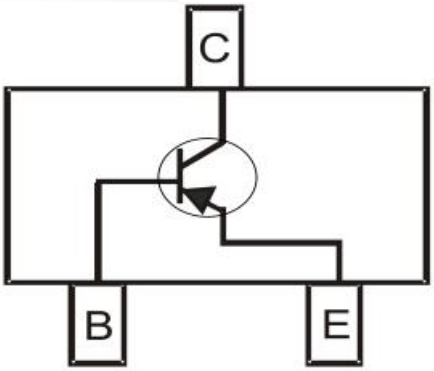
"S1" means SOT-23

TRANSISTOR (PNP)

EV2SA1082-S1

SOT-23





FEATURES

- Low Frequency Amplifier

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-120	V
V_{CEO}	Collector-Emitter Voltage	-120	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-0.1	A
P_C	Collector Power Dissipation	400	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	312	℃/W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

ELECTRICAL CHARACTERISTICS

T_a=25℃ unless otherwise specified

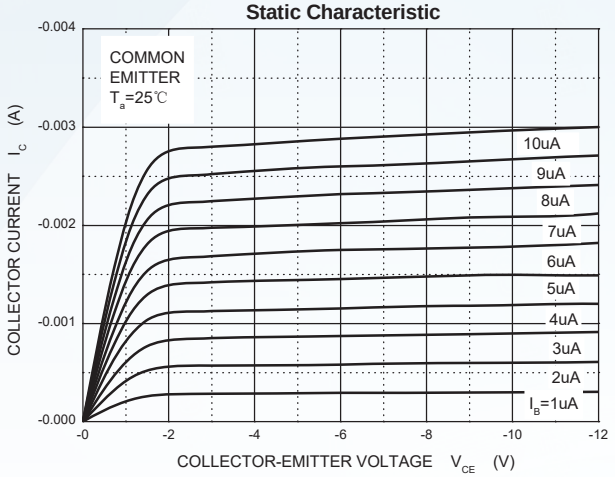
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=- 0.01mA,I_E=0	-120			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-1mA,I_B=0	-120			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-0.01mA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-50V,I_E=0			-0.1	KA
Emitter cut-off current	I_{EBO}	V_{EB}=-2V,I_C=0			-0.1	KA
DC current gain	h_{FE}	V_{CE}=-12V, I_C=-2mA	250		800	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-10mA,I_B=-1mA			-0.2	V
Base-emitter voltage	V_{BE}	V_{CE}=-12V, I_C=-2mA		-0.6		V
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0, f=1MHz		3.5		pF
Transition frequency	f_T	V_{CE}=-12V,I_C=-2mA		90		MHz

CLASSIFICATION OF h_{FE}

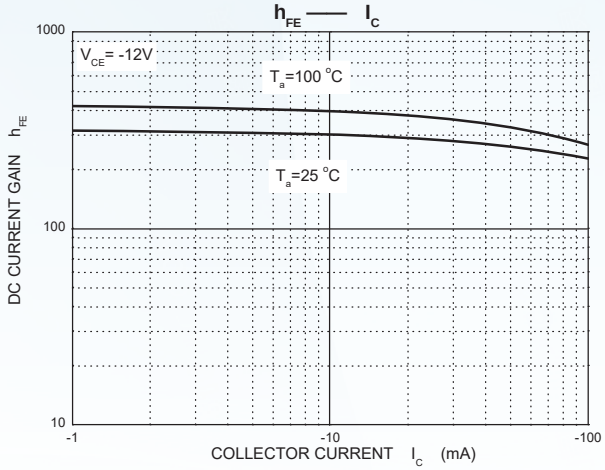
RANK	D	E
RANGE	250-500	400-800

Typical Characteristics

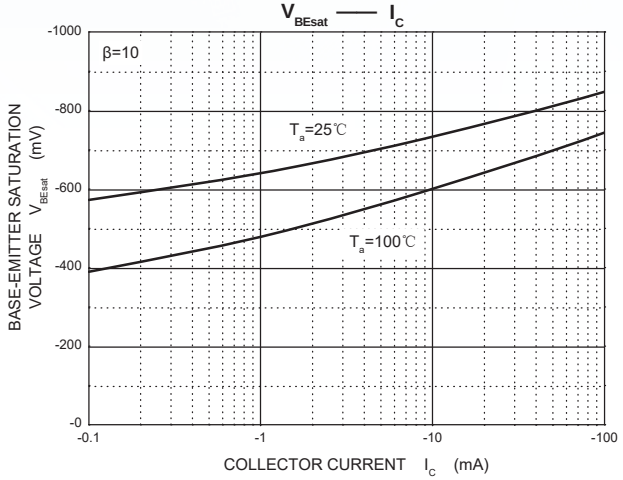
Static Characteristic



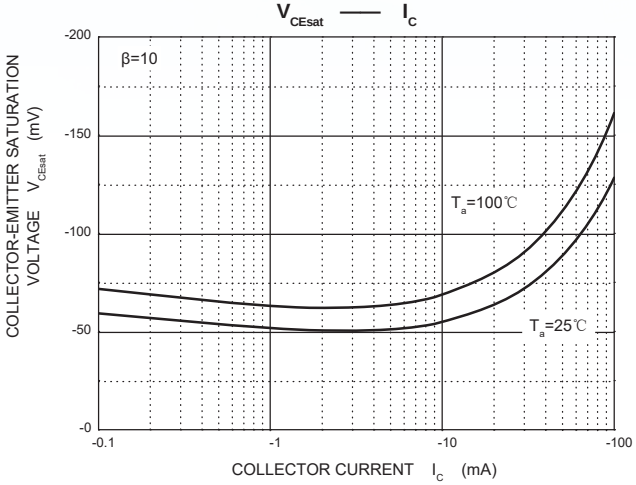
h_{FE} —— I_C



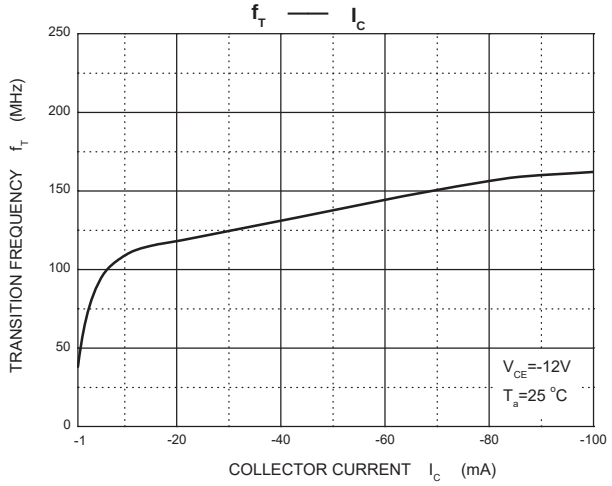
V_{BEsat} —— I_C



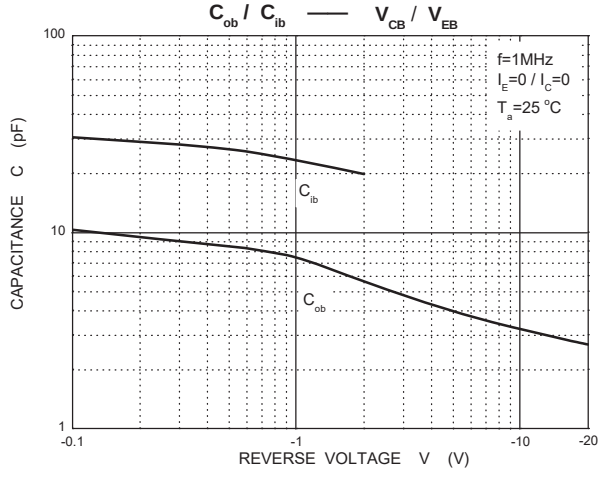
V_{CEsat} —— I_C



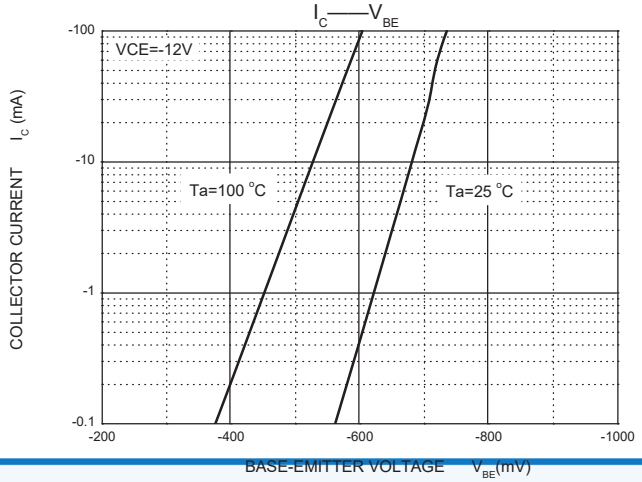
f_T —— I_C



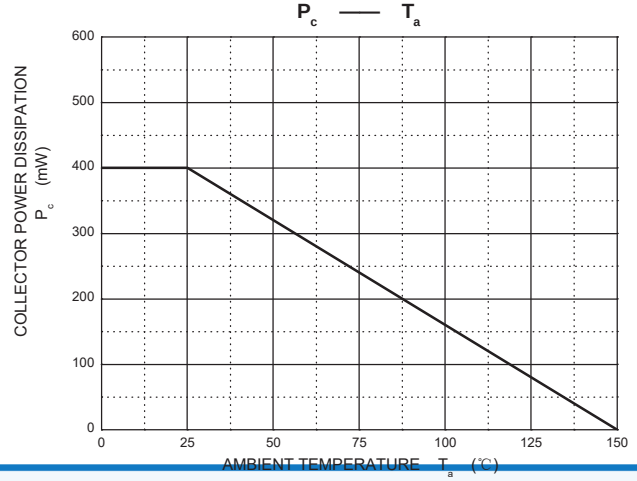
C_{ob} / C_{ib} —— V_{CB} / V_{EB}



I_C ——V_{BE}



P_c —— T_a



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