

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	EV2SC5198-T72
▶ Overseas	Part Number	2SC5198
▶ Equivalent	Part Number	2SC5198

"T72" means TO-3PS

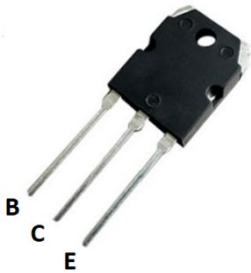
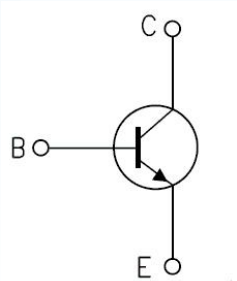
EV is the abbreviation of name EVVO

Silicon NPN transistor

Power Amplifier Applications

- Complementary to 2SA1941
- High collector voltage:VCEO=140V (min)
- Recommended for 100-W high-fidelity audio frequency amplifier Output stage

Note1: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.



TO-3PS

Absolute Maximum Ratings(Tc=25°C):

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	140	V
Collector-emitter voltage	V _{CEO}	140	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	10	A
Bese current	I _B	1	A
Collector power dissipation(Tc=25°C)	P _C	100	W
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55~150	°C

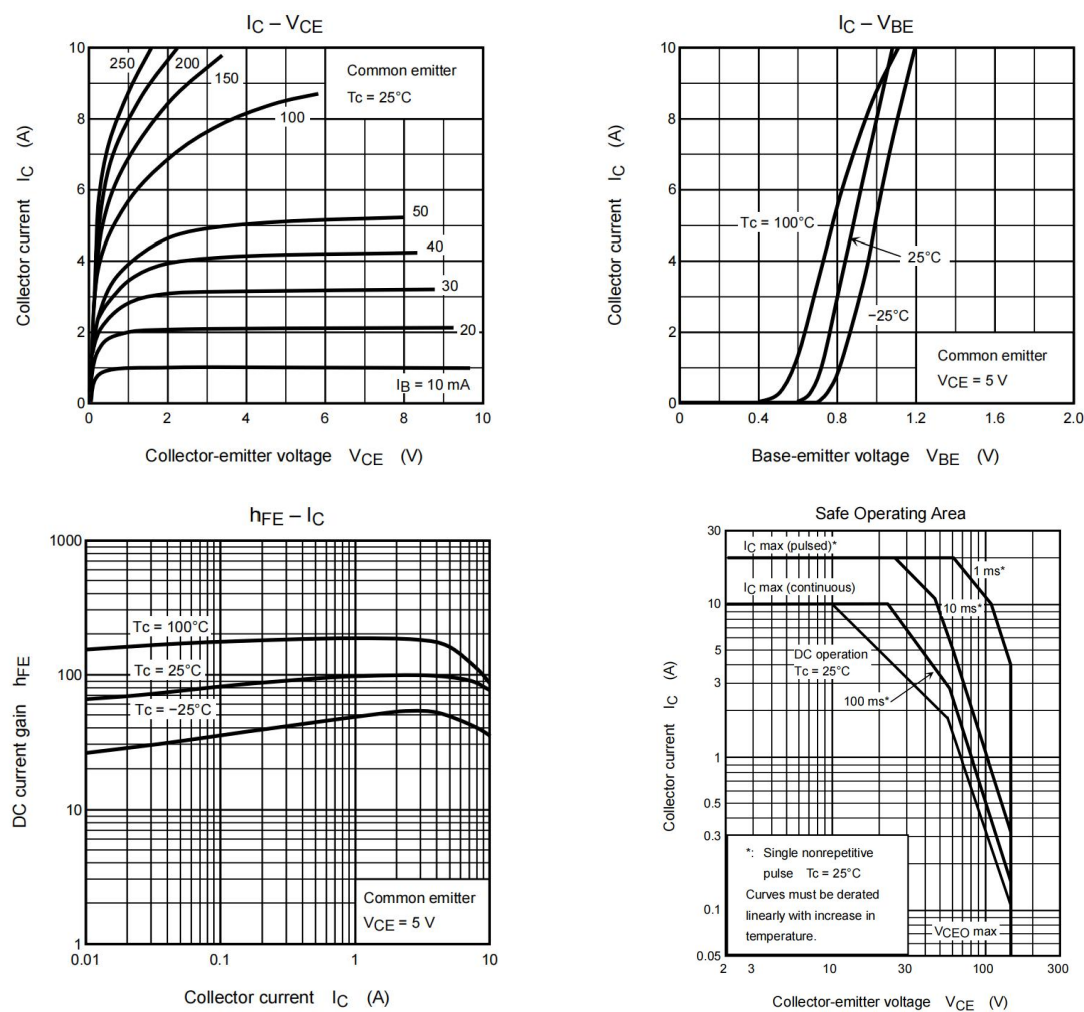
Silicon NPN transistor

Electrical Characteristics (Tc=25℃):

Characteristics	Symbol	Test Condition	Min	Typ	Max	Unit
Collector cut-off current	ICBO	V _{CB} =140V; I _E =0			5	uA
Emitter cut-off current	IEBO	V _{EB} =5V; I _C =0			5	uA
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =50mA, I _B =0	140			V
Dc current gain	h _{FE}	V _{CE} =5V; I _C =1A;	55		160	
	h _{FE(2)}	V _{CE} =5V; I _C =5A;	35	83		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =8A; I _B =0.8A			3.0	V
Base-emitter voltage	V _{BE}	V _{CE} =5V; I _C =5A			1.5	
Transition frequency	f _T	V _{CE} =5V; I _C =1A		30		MHz

Symbol	Paramter	Typ	Units
R _{θJC}	Junction-to-Case	0.35	℃/W

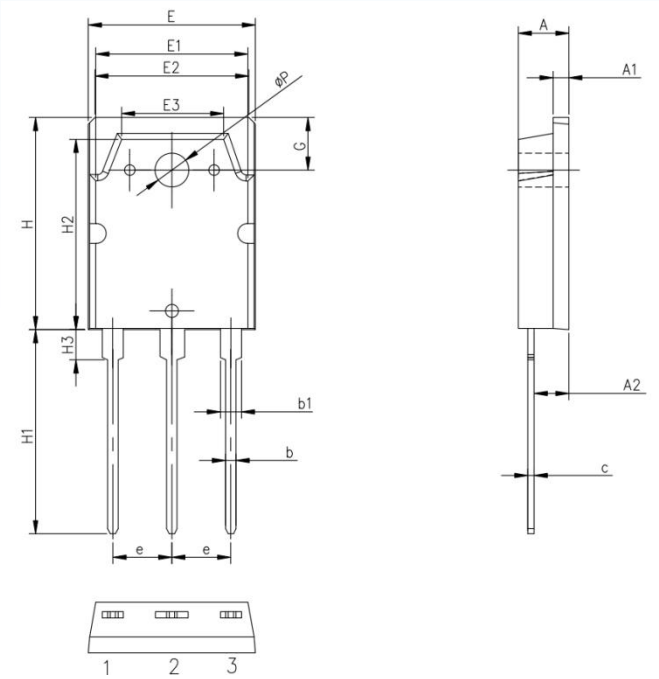
TYPICAL CHARACTERISTICS



Package Information

Silicon NPN transistor

TO-3PS PACKAGE



Symbol	单位 mm		
	Min	Nom	Max
A	4.30	4.50	4.70
A1	1.3	1.5	1.7
A2	2.50	2.70	2.90
b	0.80	1.0	1.20
b1	1.80	2.00	2.20
c	0.50	0.60	0.70
e	5.25	5.45	5.65
E	15.1	15.5	15.9
E1	13.1	13.3	13.5
E2	13.2	13.4	13.6
E3	9.1	9.3	9.5
H	19.8	20.0	20.2
H1	20.0	20.5	21.0
H2	18.3	18.5	18.7
H3	2.8	3.0	3.2
G	4.30	4.50	4.70
ΦP	3.00	3.20	3.40

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