(Transistor) 2SA1998

UNIT:mm

_0,1

0.45

For Low Frequency Power Amplify Application Silicon PNP Epitaxial Type Micro(Frame type)

OUTLINE DRAWING

3.0

14.0

EMITTER
COLLECTOR

③:BASE

TERMINAL CONNECTOR

EIAJ : -

JEDEC :----

DESCRIPTION

2SA1998 is a silicon PNP epitaxial type transistor designed for small type motor drive, solenoid drive and power supply application.

FEATURE

- High collector current Ic=-2A
- Low collector saturation voltage VCE(sat)=-0.17V typ (@ Ic=-1A,IB=-50mA)
- High hFE=150 to 800
- High collector dissipation Pc= 600mW

APPLICATION

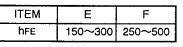
VCR. deck, small type motor drive for player, power supply, etc



SYMBOL	PARAMETER	RATINGS	UNIT
Vсво	Collector to Base voltage	-20	V
VEBO	Emitter to ase voltage	-6	, V
VCEO	Collector to Emitter voltage	-20	V
Ісм	Peak collector current	-3	Α
Ic	Collector current	-2	Α
Pc	Collector to Base voltage	600	mW
Tj	Junction temperature	+150	°C
Tstg	Storage temperature	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

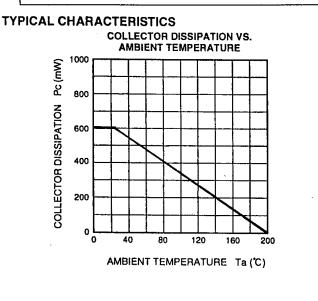
0111001	PARAMETER	TESTCONDITIONS	LIMITS			Τ
SYMBOL			MIN	TYP	MAX	
V(BR)CBO	C to B break down voltage	l c=-10μA, l ε=0	-20			V
V(BR)EBO	E to B break down voltage	I E=-10μA, I C=0	-6			V
V(BR)CEO	C to E break down voltage	I c=-2mA, Rвε=∞	-20			V
І сво	Collector cut off current	Vcb=-16V, E=0			-0.2	μA
I EBO	Emitter cut off current	VEB=-4V, I C=0			-0.2	μA
hfe *	DC forward current gain	VCE=-4V, I C=-100mA	150	1	500	-
VCE(sat)	C to E saturation voltage	I с=-1А, I в=-50mА		-0.17	-0,3	V
fr	Gain band width product	VCE=-2V, I E=10mA		80		MHz
Cob	Collector output capacitance	VcB=-10V, I E=0, f=1MHz		42		pF



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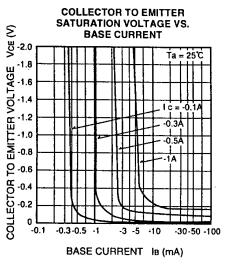
(Transistor) 2SA1998

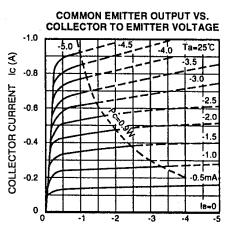
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COMMON EMITTER TRANSFER 1.0 Ta = 25C Vce=-4V Vce=-4V 0.8 0.6 0.4 0.2 0.2 0.2 0.2 0.3 0.6 0.8 0.6 0.8 0.6 0.8

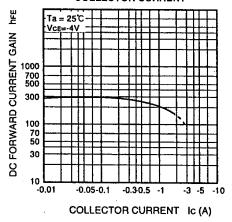
BASE TO EMITTER VOLTAGE VBE (V)

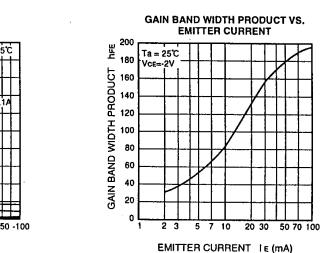




COLLECTOR TO EMITTER VOLTAGE VCE (V)



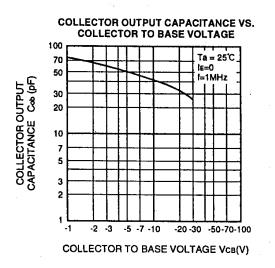




ISAHAYA ELECTRONICS CORPORATION

(Transistor) 2SA1998

For Low Frequency Power Amplify Application Silicon PNP Epitaxial Type Micro(Frame type)



ISAHAYA ELECTRONICS CORPORATION

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