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

DESCRIPTION

§SA1998 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

MAXIMUM RATINGS (Ta=25°C)

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
I CM	Peak collector current	-3	Α
l c	Collector current	-2	Α
Pc	Collector to Base voltage	600	mW
Tj	Junction temperature	+150	ပံ့
Tstg	Storage temperature	-55 to +150	င

TERMINAL CONNECTOR ①: EMITTER ②: COLLECTOR EIAJ: ③: BASE JEDEC:

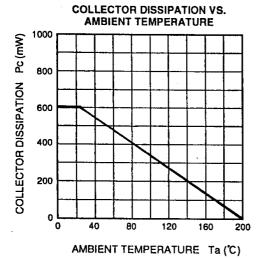
ELECTRICAL CHARACTERISTICS (Ta=25°C)

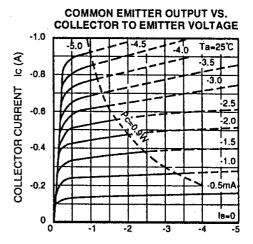
SYMBOL	PARAMETER	TESTCONDITIONS		LIMITS		
			MIN	TYP	MAX	UNIT
V(BR)CBO	C to B break down voltage	I C=-10 μ A, I E=0	-20			V
V(BR)EBO	E to B break down voltage	I E=-10 μ A, I C=0	-6			V
V(BR)CEO	C to E break down voltage	I c=-2mA, RBE=∞	-20			V
I сво	Collector cut off current	VcB=-16V, I E=0			-0.2	μА
l ebo	Emitter cut off current	VEB=-4V, I C=0			-0.2	μА
hFE *	DC forward current gain	VCE=-4V, I C=-100mA	150	1	500	
VCE(sat)	C to E saturation voltage	I C=-1A, I B=-50mA		-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

ITEM	E	F
hFE	150~300	250~500

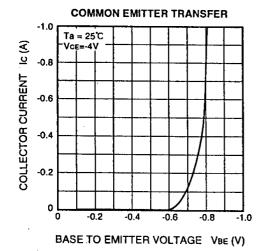
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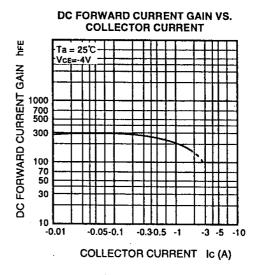
TYPICAL CHARACTERISTICS

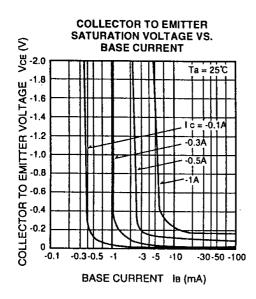


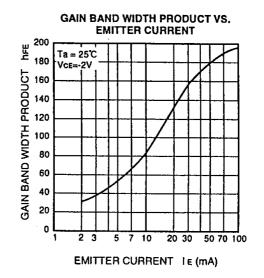


COLLECTOR TO EMITTER VOLTAGE VCE (V)



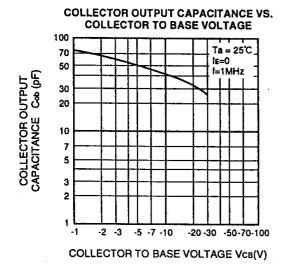






(Transistor) 2SA1998

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