2SA1282, 2SA1282A

FOR LOW FREQUENCY POWER AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

2SA1282, 2SA1282A is a silicon PNP epitaxial type transistor designed for small type motor drive, solenoid drive and power supply application.

Complementary with 2SC3242, 2SC3242A.

FEATURE

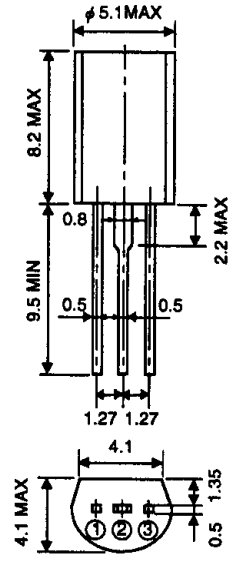
- ●High collector current I C=-2A
- ●Low collector saturation voltage
  VCE(sat)=-0.17V typ (@ IC=-1A)
- ●High hFE=150 to 800
- ●High collector dissipation PC=900mW

APPLICATION

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

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTOR

① : EMITTER
② : COLLECTOR EIAJ : —
③ : BASE JEDEC : —

Note)
The dimension without tolerance represent central value.

MAXIMUM RATINGS (Ta=25℃)

Symbol	Parameter	Ratings		Unit
		2SA1282	2SA1282A	
VCBO	Collector to Base voltage	-20	-20	V
VEBO	Emitter to Base voltage	-6	-6	V
VCEO	Collector to Emitter voltage	-16	-20	V
ICM	Peak collector current	-3		A
I C	Collector current	-2		A
PC	Collector dissipation	900		mW
Tj	Junction temperature	+150		℃
Tstg	Storage temperature	-55 to +150		℃

ELECTRICAL CHARACTERISTICS (Ta=25℃)

Symbol	Parameter	Test conditions	Limits						Unit
			2SA1282			2SA1282A			
			Min	Typ	Max	Min	Typ	Max	
V(BR)CBO	C to B break down voltage	IC = -10 μA, IE=0	-20			-20			V
V(BR)EBO	E to B break down voltage	IE = -10 μA, IC=0	-6			-6			V
V(BR)CEO	C to E break down voltage	IC = -2 mA, RBE=∞	-16			-20			V
ICBO	Collector cut off current	VCB = -16 V, IE=0			-0.2			-0.2	μA
IEBO	Emitter cut off current	VEB = -4V, IC=0			-0.2			-0.2	μA
hFE *	DC forward current gain	VCE = -4 V, IC=-100mA	150		800	150		500	—
VCE(sat)	C to E saturation Voltage	IC = -1A, IB= -50mA		-0.17	-0.3		-0.17	-0.3	V
fT	Gain band width product	VCE= -2V, IE=10mA		80			80		MHz
Cob	Collector out put capacitance	VCB= -10V, IE= 0, f=1MHz,		42			42		pF

* : It shows hFE classification in right table.

Item	E	F	G
hFE	150 to 300	250 to 500	400 to 800

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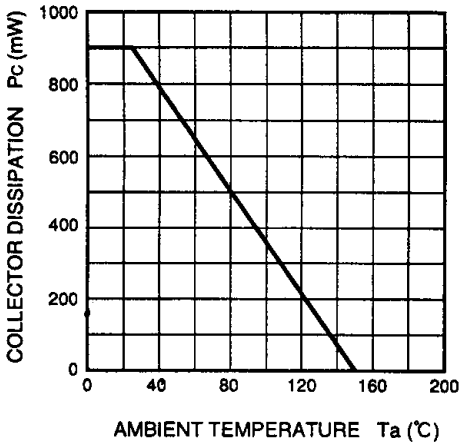
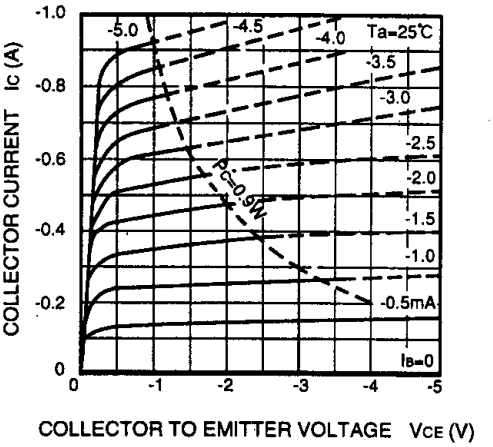
TYPICAL CHARACTERISTICS

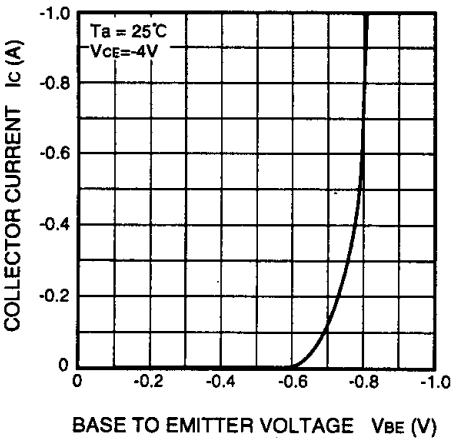
COLLECTOR DISSIPATION VS. AMBIENT TEMPERATURE



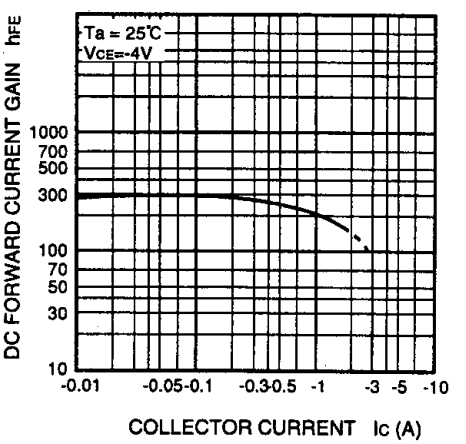
COMMON EMITTER OUTPUT VS. COLLECTOR TO EMITTER VOLTAGE



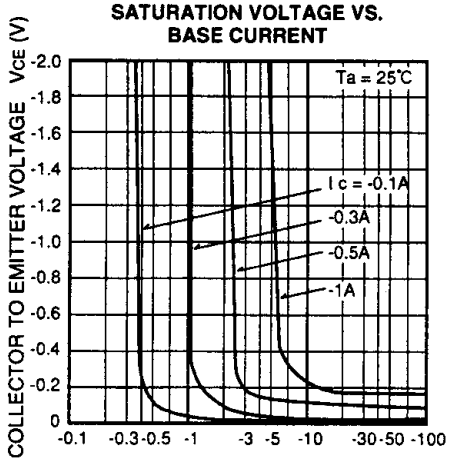
COMMON EMITTER TRANSFER



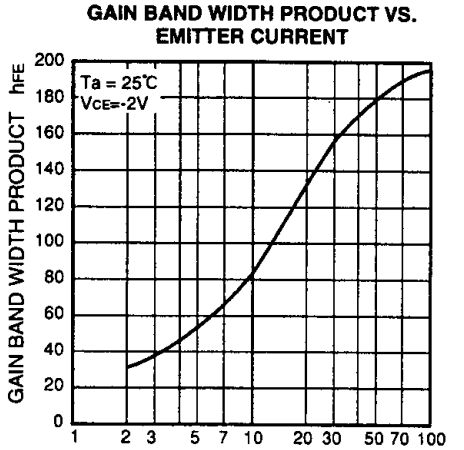
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



COLLECTOR TO EMITTER SATURATION VOLTAGE VS. BASE CURRENT



GAIN BAND WIDTH PRODUCT VS. EMITTER CURRENT



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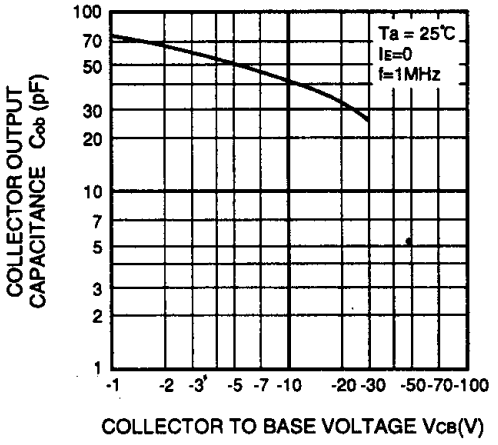
COLLECTOR OUTPUT CAPACITANCE VS.
COLLECTOR TO BASE VOLTAGE



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