## 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.

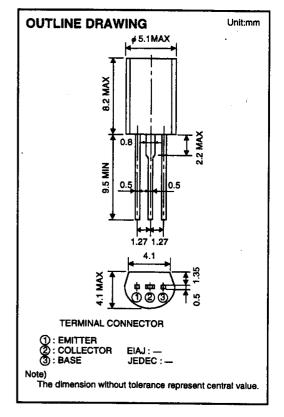
Complementary with 2SC3242, 2SC3242A.

### **FEATURE**

- ●High collector current ! 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.



## MAXIMUM RATINGS (Ta=25℃)

Symbol	Parameter	Ra	Unit	
	L	2SA1282	2SA1282A	Oint
Vсво	Collector to Base voltage	-20	-20	V
VEBO	Emitter to Base voltage	-6	-6	V
VCEO	Collector to Emitter voltage	-16	-20	V
Ісм	Peak collector current	-3		Α
Ic	Collector current	-2		Α
Pc	Collector dissipation	900		mW
Tj	Junction temperature	+150		°C
Tstg	Storage temperature	-55 to	°C	

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

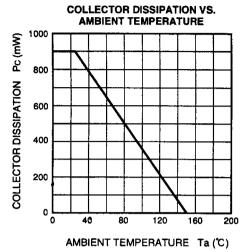
Symbol	Parameter	Test conditions	Limits						
			2SA1282			2SA1282A		Unit	
			Min	Тур	Max	Min	Тур	Max	1 .
V(BR)CBO	C to B break down voltage	Ic = -10 μA, IE=0	-20			-20			V
V(BR)EBO	E to B break down voltage	IE = -10 μA, IC=0	-6			-6			V
V(BR)CEO	C to E break down voltage	Ic = -2 mA, RBE= <sup>∞</sup>	-16	1		-20			V
Ісво	Collector cut off current	VcB = -16 V, IE=0			-0.2			-0.2	μА
<b>IEBO</b>	Emitter cut off current	VEB = -4V, IC=0			-0.2	<u> </u>		-0.2	μА
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
fr	Gain band width product	Vce= -2V, le=10mA		80			80		MHz
Сов	Collector out put capacitance	VCB= -10V, IE= 0, f=1MHz,		42			42	<u> </u>	pF

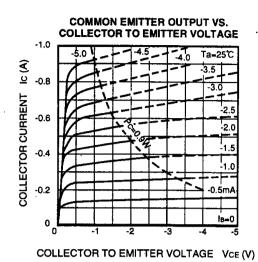
<sup>\* :</sup> It shows her classification in right table.

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

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### TYPICAL CHARACTERISTICS





COMMON EMITTER TRANSFER

-1.0

Ta = 25 °C

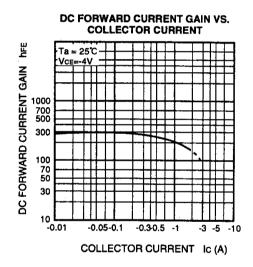
VcE=-4V

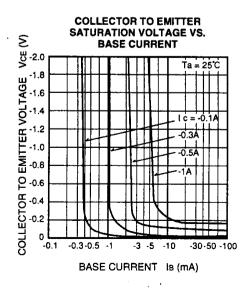
-0.6

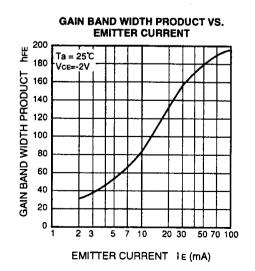
-0.4

-0.6

BASE TO EMITTER VOLTAGE VBE (V)







# 2SA1282, 2SA1282A

# FOR LOW FREQUENCY POWER AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

### **COLLECTOR OUTPUT CAPACITANCE VS. COLLECTOR TO BASE VOLTAGE** 100 Ta = 25°C\_ 70 IE=0 f=1MHz 50 COLLECTOR OUTPUT CAPACITANCE Cob (pF) 30 20 10 7 5 3 2 -20 -30 -50-70-100 COLLECTOR TO BASE VOLTAGE VCB(V)



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