0.2)

1.05±0.0

6

0.65 max

 $0.45_{-0.0}^{+0.10}$

2.5±0.5

Unit: mm 2.5±0.1

(0.8)

 $0.45^{+0.10}_{-0.05}$

2SA1982

Silicon PNP epitaxial planar type

For low-frequency high breakdown voltage amplification Complementary to 2SC5346

Features

- Satisfactory linearity of forward current transfer ratio h_{FE}
- High collector-emitter voltage (Base open) V_{CEO}
- Small collector output capacitance (Common base, input open circuited) Cob

Absolute Maximum Ratings $T_a = 25^{\circ}C$ Parameter Symbol Rating Unit V_{CBO} V Collector-base voltage (Emitter open) -150 Collector-emitter voltage (Base open) V_{CEO} -150 V Emitter-base voltage (Collector open) V_{EBO} -5 -50 Collector current IC Peak collector current -100 I_{CP} P_C Collector power dissipation * 1 T_i 150 Junction temperature Storage temperature -55 to +150 T_{stg}

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Conector-base voltage (Emitter open)	V CBO	-150				\sim	-		
Collector-emitter voltage (Base open)	V _{CEO}	-150	V		1		Emitter Collector		
Emitter-base voltage (Collector open)	V _{EBO}	-5	V	1 2	3	3 MT 2 A	: Base 1 Package		
Collector current	I _C	-50	mA	Š	~ ze	WI1-2-A	II Fackage		
Peak collector current	I _{CP}	-100	mA	XO					
Collector power dissipation * P _c 1 W									
Junction temperature T _j 150 °C									
Storage temperature T_{stg} -55 to +150 °C									
Note) *: Printed circuit board: Copper foil area of 1 cm ² or more, and the									
Emitter-base voltage (Collector open) V_{EBO} 5V123: Base MT-2-A1 PackageCollector currentIc-50mAPeak collector currentIcp-100mACollector power dissipation *Pc1WJunction temperatureTj150°CStorage temperatureTstg-55 to +150°CNote) *: Printed circuit board: Copper foil area of 1 cm ² or more, and the board thickness of 1.7 mm for the collector portionImage: Collector portionElectrical CharacteristicsTa = $25^{\circ}C \pm 3^{\circ}C$ Collector portion									
Parameter	Symbol	10	Conditions	Min	Тур	Max	Unit		
Collector-emitter voltage (Base open)	V _{CEO}	$I_{C} = 0.1$	$\mathbf{m}\mathbf{A}, \mathbf{I}_{\mathrm{B}} = 0$	-150			V		
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu$	A, $I_{C} = 0$	-5			V		
Collector-base cutoff current (Emitter open)	I_{CBO} V _{CB} -100 V, $I_E = 0$				-1	μΑ			
Forward current transfer ratio *	$V_{CE} = -5 \text{ V}, \text{ I}_{C} = -10 \text{ mA}$		130		330				
Collector-emitter saturation voltage	$V_{CE(sa)}$ $I_{C} = -30 \text{ mA}, I_{B} = -3 \text{ mA}$					-1	V		
Transition frequency	f _T				200		MHz		
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$				5	pF		
Noise voltage	NV	$V_{CE} = -10 \text{ V}, I_C = -1 \text{ mA}, G_V = 80 \text{ dB}$ $R_g = 100 \text{ k}\Omega, \text{ Function} = \text{FLAT}$			150	300	mV		

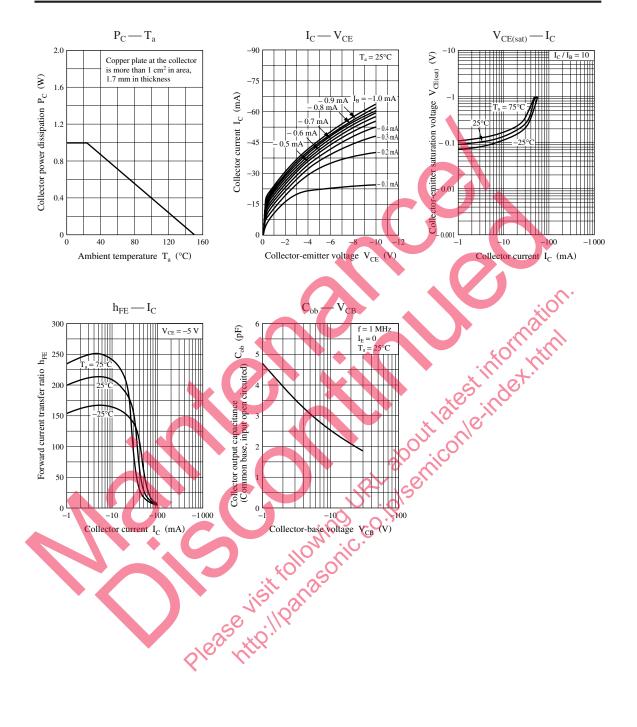
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

Rank	R	S		
h_{FE}	130 to 220	185 to 330		



Panasonic



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