2SA2046

Silicon PNP epitaxial planar type

For DC-DC converter

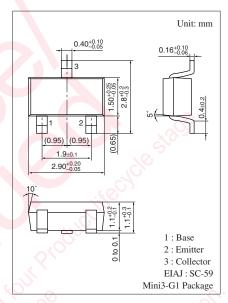
■ Features

- ullet Low collector-emitter saturation voltage $V_{\text{CE(sat)}}$
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-30	V	
Collector-emitter voltage (Base open)	V_{CEO}	-20	V	
Emitter-base voltage (Collector open)	V _{EBO}	-5	V	
Collector current	I_{C}	-1.5	A	
Peak collector current	I_{CP}	-5	A	
Collector power dissipation *	P _C	400	mW	
Junction temperature	T _j	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C O	

Note) *: Measure on the ceramic substrate at 15 mm \times 15 mm \times 0.6 mm



Marking Symbol: 3Z

■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-30			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -1 \text{ mA}, I_B = 0$	-20			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -10 \mu\text{A}, I_C = 0$	-5			V
Forward current transfer ratio *	h _{FE}	$V_{CE} = -2 \text{ V}, I_{C} = -100 \text{ mA}$	160		560	_
Collector-emitter saturation voltage *	V _{CE(sat)}	$I_C = -500 \text{ mA}, I_B = -25 \text{ mA}$		-50	-150	mV
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 20 \text{ mA}, f = 200 \text{ MHz}$		170		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		25	35	pF
(Common base, input open circuited)		- 25 1/1/2X				

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

2. *: Pulse measurement

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