2SA2046

Silicon PNP epitaxial planar type

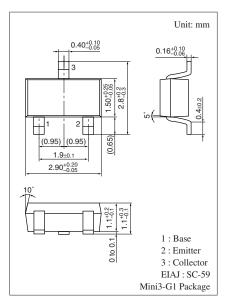
For DC-DC converter

Features

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

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	А					
Peak collector current	I _{CP}	-5	А					
Collector power dissipation *	P _C	400	mW					
Junction temperature	Tj	150	°C					
Storage temperature	T _{stg}	-55 to +150	°C					





Marking Symbol: 3Z

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

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

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

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. *: Pulse measurement

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