2SA2046

Silicon PNP epitaxial planer type

For DC-DC converter

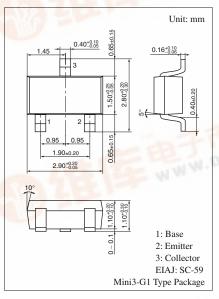
■ Features

- Low collector to emitter saturation voltage V_{CE(sat)}
- Mini3-G1 type package, allowing downsizing and thinning of the equipment and automatic insertion through the tape packing

■ Absolute Maximum Ratings $T_a = 25$ °C

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

Note) *: Measure on the ceramic substrate at $15 \times 15 \times 0.6$ mm³



Marking Symbol: 3Z

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

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

Note) *: Pulse measurement



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