2SA2046

Silicon PNP epitaxial planer type

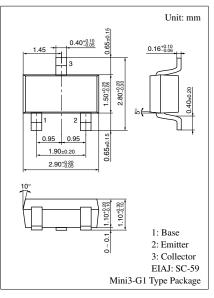
For DC-DC converter

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

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	А	
Collector current	I _C	-1.5	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 $15 \times 15 \times 0.6 \text{ mm}^3$

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

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

Note) *: Pulse measurement

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