2SC5609

Silicon PNP epitaxial planer type

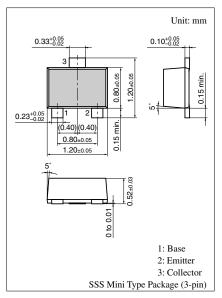
For general amplification Complementary to 2SA2021

■ Features

- High foward current transfer ratio h_{FE}
- SSS-mini 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}	60	V
Collector to emitter voltage	V _{CEO}	50	V
Emitter to base voltage	V _{EBO}	7	V
Peak collector current	I_{CP}	200	mA
Collector current	I_{C}	100	mA
Collector power dissipation	P _C	100	mW
Junction temperature	T _j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C



Marking Symbol: 3F

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 20 \text{ V}, I_E = 0$			0.1	μΑ
	I _{CEO}	$V_{CE} = 10 \text{ V}, I_B = 0$			100	μA
Collector to base voltage	V _{CBO}	$I_C = 10 \ \mu A, I_E = 0$	60			V
Collector to emitter voltage	V _{CEO}	$I_C = 2 \text{ mA}, I_B = 0$	50			V
Emitter to base voltage	V _{EBO}	$I_E = 10 \ \mu A, I_C = 0$	7			V
Forward current transfer ratio	h _{FE1}	$V_{CE} = 10 \text{ V}, I_{C} = 2 \text{ mA}$	180		390	
	h _{FE2}	$V_{CE} = 2 \text{ V}, I_{C} = 100 \text{ mA}$	90			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 100 \text{ mA}, I_{\rm B} = 10 \text{ mA}$		0.1	0.3	V
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		3.5		pF
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		80		MHz

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