Power Transistors Panasonic

2SC3611

Silicon NPN epitaxial planar type

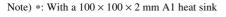
For video amplifier

■ Features

- High transition frequency f_T
- \bullet Small collector output capacitance C_{ob}
- Wide current range
- TO-126B package which requires no insulation plate for installation to the heat sink

■ Absolute Maximum Ratings $T_C = 25$ °C

Parameter		Symbol	Rating	Unit
Collector to base voltage		V_{CBO}	110	V
Collector to emitter voltage		V _{CER}	100	V
		V _{CEO}	50	V
Emitter to base voltage		V _{EBO}	3.5	V
Peak collector current		I_{CP}	300	mA
Collector current		I_{C}	150	mA
Collector power	$T_C = 25^{\circ}C$	P _C	1.2	W
dissipation	$T_a = 25^{\circ}C$		4.0 *	
Junction temperature		T _j	150	°C
Storage temperature		T_{stg}	-55 to +150	°C



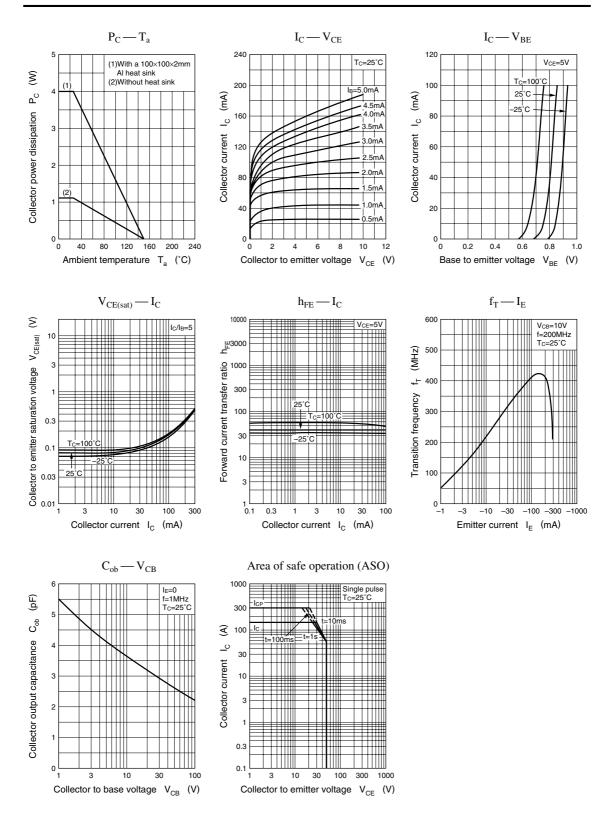
Unit: mm 8.0^{+0.5} 9.3.16±0.1 0.75±0.1 0.5±0.1 1.76±0.1 4.6±0.2 1: Base 2: Collector 3: Emitter TO-126B-Al Package

■ Electrical Characteristics $T_C = 25$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I_{CEO}	$V_{CE} = 35 \text{ V}, I_{B} = 0$			10	μΑ
Collector to base voltage	V_{CBO}	$I_C = 100 \mu\text{A}, I_E = 0$	110			V
Collector to emitter voltage	V _{CER}	$I_C = 500 \ \mu A, R_{BE} = 470 \ \Omega$	100			V
	V _{CEO}	$I_C = 1 \text{ mA}, I_B = 0$	50			V
Emitter to base voltage	V_{EBO}	$I_E = 100 \mu\text{A}, I_C = 0$	3.5			V
Forward current transfer ratio	h_{FE}	$V_{CE} = 5 \text{ V}, I_{C} = 100 \text{ mA}$	20			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 150 \text{ mA}, I_B = 15 \text{ mA}$			0.5	V
Transition frequency	f_{T1}	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		300		MHz
	f_{T2}	$V_{CB} = 10 \text{ V}, I_E = -110 \text{ mA}, f = 200 \text{ MHz}$		350		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 30 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$		3		pF

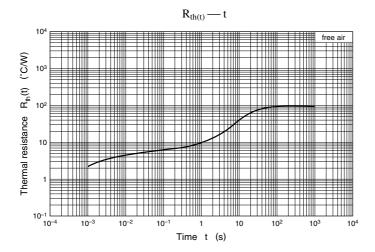
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202 Panasonic

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