Panasonic

2SC2258

Silicon NPN triple diffusion planar type

For high breakdown voltage general amplification For video output amplification

■ Features

- \bullet High collector to emitter voltage V_{CEO}
- High transition frequency f_T
- TO-126B package which requires no insulation plate for installation to the heat sink

■ Absolute Maximum Ratings $T_C = 25$ °C

9					
Parameter	Symbol	Rating	Unit		
Collector to base voltage	V _{CBO}	250	V		
Collector to emitter voltage	V _{CEO}	250	V		
Emitter to base voltage	V _{EBO}	7	V		
Peak collector current	I_{CP}	150	mA		
Collector current	I_{C}	100	mA		
Collector power dissipation	P_{C}	1.2 *1	W		
		4 *2			
Junction temperature	T_{j}	150	°C		
Storage temperature	T_{stg}	-55 to +150	°C		



^{*2:} With a $100 \times 100 \times 2$ mm A1 heat sink

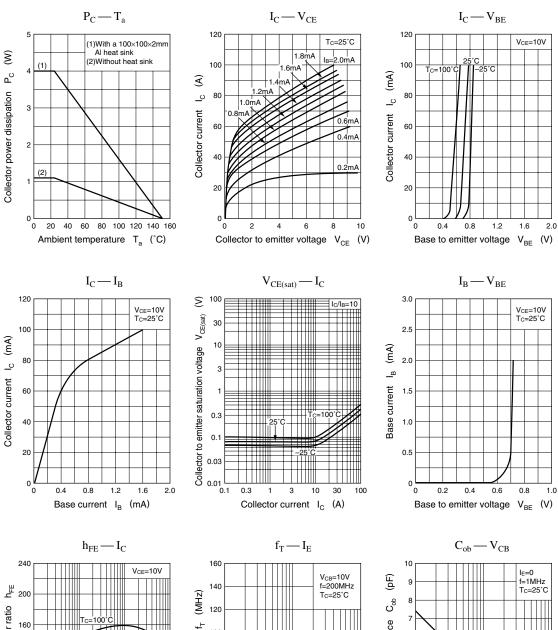
Unit: mm 8.0^{+0.5} 9.3.16±0.1 0.75±0.1 1.76±0.1 1.6±0.1 1.6±0.1 1.76±0.1 2. Collector 3: Base TO-126B Package

■ Electrical Characteristics $T_C = 25$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I _{CER}	$V_{CE} = 250 \text{ V}, R_{BE} = 100 \text{ k}\Omega$			100	μΑ
Emitter to base voltage	V_{EBO}	$I_E = 0.1 \text{ mA}, I_C = 0$	7			V
Forward current transfer ratio	h _{FE1}	$V_{CE} = 20 \text{ V}, I_{C} = 40 \text{ mA}$	40			
	h _{FE2}	$V_{CE} = 50 \text{ V}, I_{C} = 5 \text{ mA}$	30			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 50 \text{ mA}, I_{\rm B} = 5 \text{ mA}$			1.2	V
Base to emitter voltage	V_{BE}	$V_{CE} = 20 \text{ V}, I_{C} = 40 \text{ mA}$			1.2	V
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		100		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 50 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		3	4.5	pF

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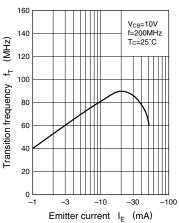
2SC2258 **Power Transistors**



Forward current transfer ratio 0.1 0.3 3 Collector current I_C (mA)

120

2



Collector output capacitance 3 Collector to base voltage V_{CB} (V)

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