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2SC2258

Silicon NPN triple diffusion planar type

For high breakdown voltage general amplification

■ Features

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

■ Absolute Maximum Ratings $T_a = 25^{\circ}$ C

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	$V_{\rm CBO}$	250	V
Collector-emitter voltage (Base open)	V_{CEO}	250	V
Emitter-base voltage (Collector open)	V_{EBO}	7	V
Collector current	I_{C}	100	mA
Peak collector current	I_{CP}	150	mA
Collector power dissipation	P_{C}	1.2 *1	W
		4 *2	
Junction temperature	Tj	150	000
Storage temperature	T _{stg}	-55 to +150	60
			^

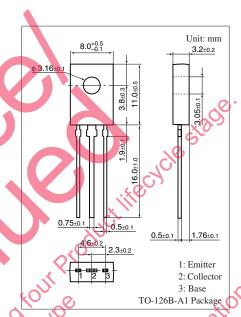


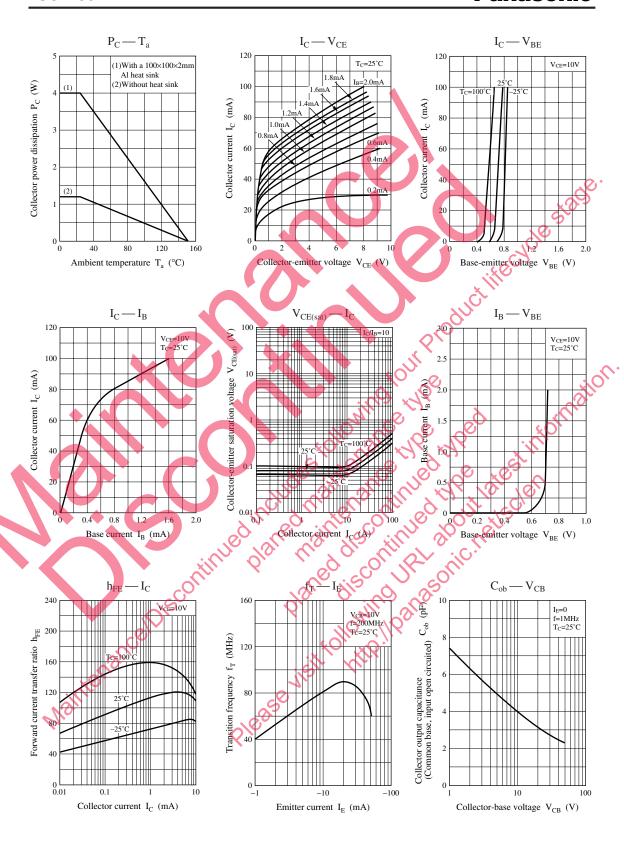
^{*2 :}With a $100 \times 100 \times 2$ mm Al heat sink

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 0.1 \text{ mA}, I_C = 0$	7			V
Base-emitter voltage	V _{BE}	$V_{CE} = 20 \text{ V}, I_{C} = 40 \text{ mA}$			1.2	V
Collector-emitter cutoff current	I_{CER}	$V_{CE} = 250 \text{ V}, R_{BE} = 100 \text{ k}\Omega$			100	μΑ
(Resistor between B and E)		10/4/1/00				
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-emitter saturation voltage	V _{CE(sat)}	$I_C = 50 \text{ mA}, I_B = 5 \text{ mA}$			1.2	V
Transition frequency	f_T	$V_C = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		100		MHz
Collector output capacitance	C _{ob}	$N_{CB} = 50 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$		3.0	4.5	pF
(Common base, input open circuited)		9				

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.





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