## 2SC4212

## Silicon NPN triple diffusion planar type

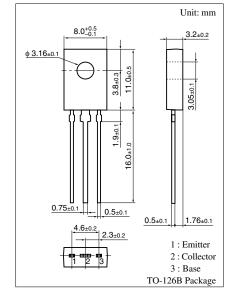
#### For color TV horizontal deflection driver

#### ■ Features

- $\bullet$  High collector to emitter voltage  $V_{\text{CEO}}$
- 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	$V_{CBO}$	350	V
Collector to emitter voltage	V <sub>CEO</sub>	300	V
Emitter to base voltage	V <sub>EBO</sub>	7.5	V
Peak collector current	$I_{CP}$	400	mA
Collector current	$I_{C}$	200	mA
Collector power dissipation	$P_{C}$	1.2 *1	W
		5 *2	
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C



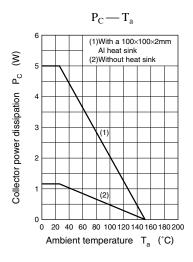
## ■ Electrical Characteristics $T_C = 25$ °C

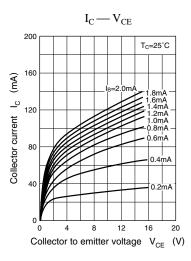
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = 200 \text{ V}, I_E = 0$			2	μΑ
Emitter cutoff current	$I_{EBO}$	$V_{EB} = 5 \text{ V}, I_{C} = 0$			2	μA
Collector to base voltage	$V_{CBO}$	$I_C = 100 \ \mu A, I_E = 0$	350			V
Collector to emitter voltage	$V_{CEO}$	$I_{\rm C} = 5 \text{ mA}, I_{\rm B} = 0$	300			V
Emitter to base voltage	$V_{EBO}$	$I_{\rm E} = 100 \mu{\rm A},  I_{\rm C} = 0$	7.5			V
Forward current transfer ratio	h <sub>FE</sub>	$V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}$	40		250	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = 50 \text{ mA}, I_B = 5 \text{ mA}$			1	V
Transition frequency	$f_T$	$V_{CB} = 30 \text{ V}, I_{E} = -10 \text{ mA}, f = 200 \text{ MHz}$	50			MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = 50 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			4.5	pF

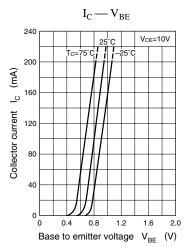
Panasonic 1

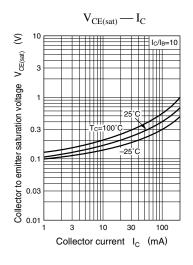
Note) \*1: Without heat sink

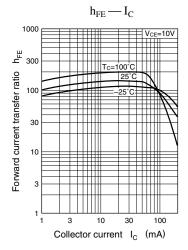
<sup>\*2:</sup> With a  $100 \times 100 \times 2$  mm A1 heat sink

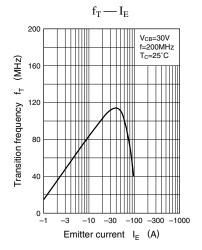


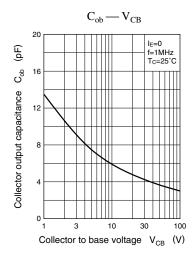




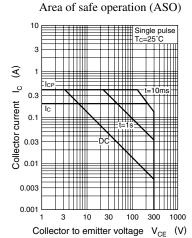








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