8.0+0.5

## 2SC4212

### Silicon NPN triple diffusion planar type

#### For color TV horizontal deflection driver

#### ■ Features

- High collector to emitter voltage V<sub>CEO</sub>
- 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 <sub>CBO</sub>	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 <sub>CP</sub>	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 <sub>stg</sub>	-55 to +150	°C



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

# φ 3.16±0.1 1: Emitter 2 : Collector 3: Base TO-126B Package

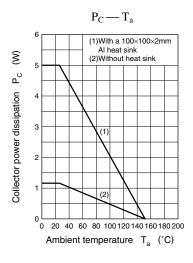
Unit: mm

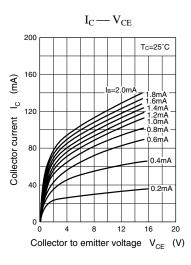
3.2±0.2

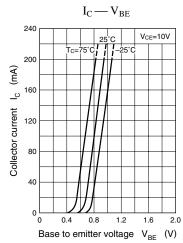
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = 200 \text{ V}, I_E = 0$			2	μΑ
Emitter cutoff current	$I_{EBO}$	$V_{EB} = 5 \text{ V}, I_{C} = 0$			2	μΑ
Collector to base voltage	$V_{CBO}$	$I_C = 100 \ \mu A, I_E = 0$	350		L'A	V
Collector to emitter voltage	V <sub>CEO</sub>	$I_{\rm C} = 5 \text{ mA}, I_{\rm B} = 0$	300			V
Emitter to base voltage	$V_{EBO}$	$I_E = 100 \mu\text{A},  I_C = 0$	7.5		- 1	V
Forward current transfer ratio	$h_{FE}$	$V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}$	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	$C_{ob}$	$V_{CB} = 50 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$			4.5	pF

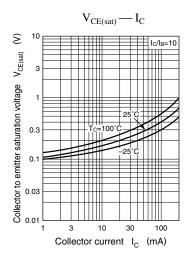


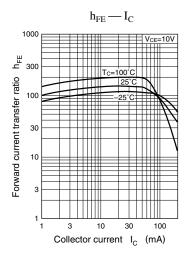
2SC4212 Power Transistors

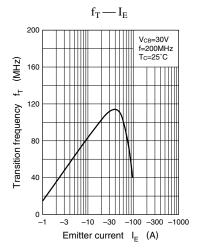


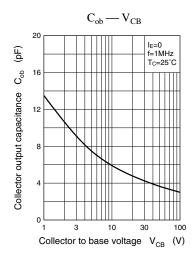


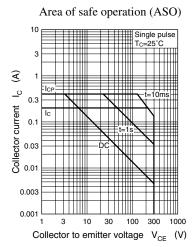












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