

# 2SC5935

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## Silicon NPN triple diffusion planar type

For power amplification

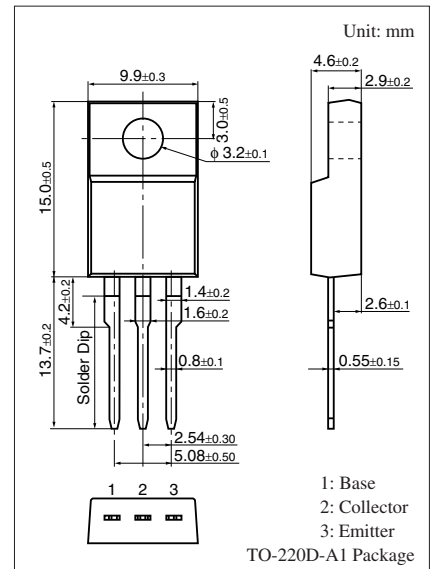
For TV vertical deflection output

### ■ Features

- Satisfactory linearity of forward current transfer ratio  $h_{FE}$
- Dielectric breakdown voltage of the package: 5 kV
- Full-pack package which can be installed to the heat sink with one screw.

### ■ Absolute Maximum Ratings $T_C = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	$V_{CBO}$	200	V
Collector-emitter voltage (Base open)	$V_{CEO}$	180	V
Emitter-base voltage (Collector open)	$V_{EBO}$	6	V
Collector current	$I_C$	2	A
Peak collector current	$I_{CP}$	3	A
Collector power dissipation	$P_C$	25	W
	$T_a = 25^\circ\text{C}$	2.0	
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$



### ■ Electrical Characteristics $T_C = 25^\circ\text{C} \pm 3^\circ\text{C}$

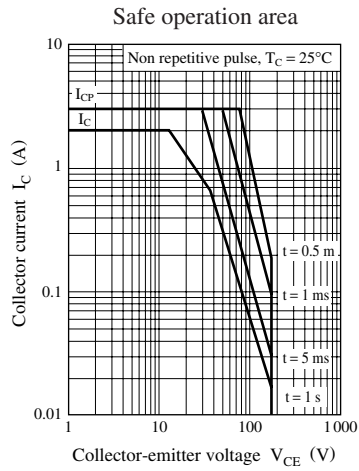
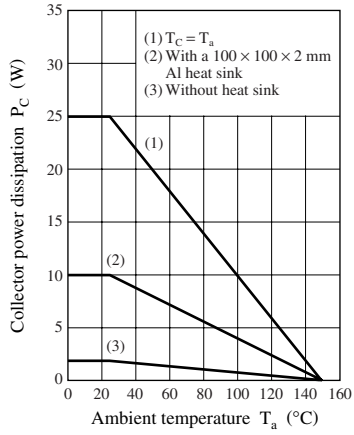
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	$V_{CBO}$	$I_C = 50 \mu\text{A}, I_E = 0$	200			V
Collector-emitter voltage (Base open)	$V_{CEO}$	$I_C = 5 \text{ mA}, I_B = 0$	180			V
Emitter-base voltage (Collector open)	$V_{EBO}$	$I_E = 500 \mu\text{A}, I_C = 0$	6			V
Base-emitter voltage	$V_{BE}$	$V_{CE} = 10 \text{ V}, I_C = 400 \text{ mA}$			1	V
Collector-base cutoff current (Emitter open)	$I_{CBO}$	$V_{CB} = 200 \text{ V}, I_E = 0$			50	$\mu\text{A}$
Emitter-base cutoff current (Collector open)	$I_{EBO}$	$V_{EB} = 4 \text{ V}, I_C = 0$			50	$\mu\text{A}$
Forward current transfer ratio	$h_{FE1}^*$	$V_{CE} = 10 \text{ V}, I_C = 150 \text{ mA}$	60		240	—
	$h_{FE2}$	$V_{CE} = 10 \text{ V}, I_C = 400 \text{ mA}$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 500 \text{ mA}, I_B = 50 \text{ mA}$			1	V
Transition frequency	$f_T$	$V_{CE} = 10 \text{ V}, I_C = 0.5 \text{ A}, f = 1 \text{ MHz}$		20		MHz

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. \*: Rank classification

Rank	Q	P
$h_{FE1}$	60 to 140	100 to 240

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