2SC5935

Silicon NPN triple diffusion planar type

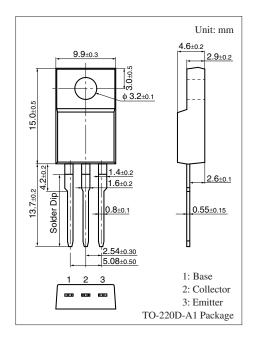
For power amplification
For TV vertical deflection output

■ 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 $T_C = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Er	V_{CBO}	200	V	
Collector-emitter voltage	V _{CEO}	180	V	
Emitter-base voltage (Coll	V_{EBO}	6	V	
Collector current	I_{C}	2	A	
Peak collector current	I_{CP}	3	A	
Collector power		P_{C}	25	W
dissipation	$T_a = 25$ °C		2.0	
Junction temperature	T _j	150	°C	
Storage temperature		T_{stg}	-55 to +150	°C



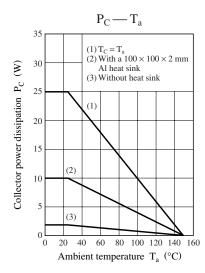
■ Electrical Characteristics $T_C = 25$ °C ± 3 °C

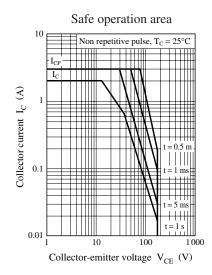
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_C = 50 \mu\text{A}, I_E = 0$	200			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = 5 \text{ mA}, I_B = 0$	180			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 500 \mu\text{A}, I_C = 0$	6			V
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	μΑ
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = 4 \text{ V}, I_C = 0$			50	μΑ
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	Р
h _{FE1}	60 to 140	100 to 240





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