# 2SD1250, 2SD1250A

### Silicon NPN triple diffusion planar type

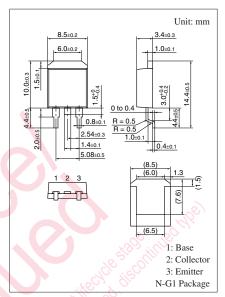
For power amplification For TV vartical deflection output Complementary to 2SB0928, 2SB0928A

#### Features

- High forward current transfer ratio  $h_{FE}$  which has satisfactory linearity
- $\bullet$  Low collector-emitter saturation voltage  $V_{CE(sat)}$
- N type package enabling direct soldering of the radiating fin to the printed circuit board, etc. of small electronic equipment.

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Er	V <sub>CBO</sub>	200	V	
Collector-emitter voltage	2SD1250	V <sub>CEO</sub>	150	V
(Base open)	2SD1250A		180	
Emitter-base voltage (Coll	V <sub>EBO</sub>	6	V	
Collector current	I <sub>C</sub>	2	Α	
Peak collector current	I <sub>CP</sub>	3	А	
Collector power dissipation	P <sub>C</sub>	30	W	
	$T_a = 25^{\circ}C$		1.3	
Junction temperature		Tj	150	°C
Storage temperature		T <sub>stg</sub>	-55 to +150	°C 💉

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



Note) Self-supported type package is also prepared.

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

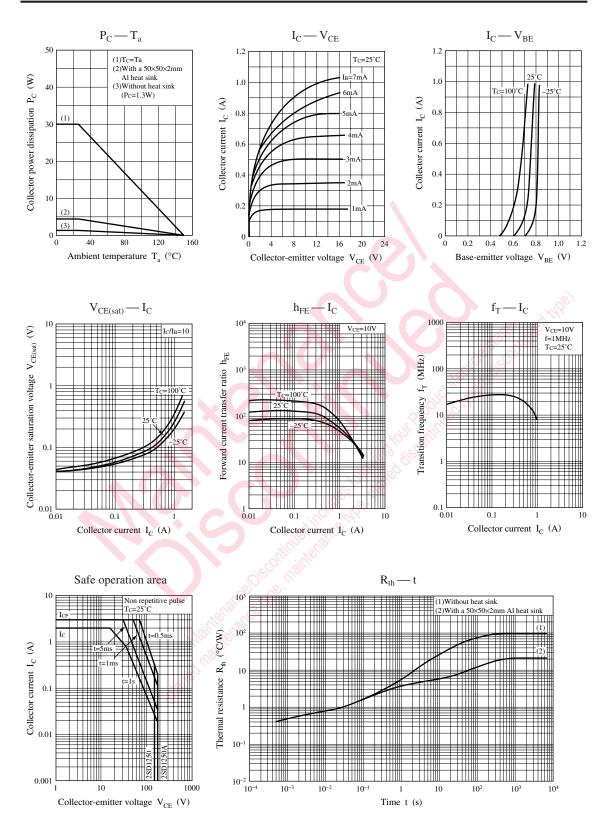
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)		V <sub>CBO</sub>	$I_{\rm C} = 500 \ \mu {\rm A}, \ I_{\rm E} = 0$	200			V
Collector-emitter voltage	2SD1250	V <sub>CEO</sub>	$I_{\rm C} = 5 \text{ mA}, I_{\rm B} = 0$	150			V
(Base open)	2SD1250A	x S BY	S. S	180			
Emitter-base voltage (Colle	ctor open)	V <sub>EBO</sub>	$I_{\rm E} = 500 \ \mu A, \ I_{\rm C} = 0$	6			V
Collector-base cutoff current (Emitter open)		Ісво	$V_{CB} = 200 \text{ V}, I_E = 0$			50	μΑ
Emitter-base cutoff current (Co	llector open)	I <sub>EBO</sub>	$V_{EB} = 4 V, I_C = 0$			50	μΑ
Forward current transfer ratio		h <sub>FE1</sub> *	$V_{CE} = 10 \text{ V}, I_{C} = 150 \text{ mA}$	60		240	
		h <sub>FE2</sub>	$V_{CE} = 10 \text{ V}, I_C = 400 \text{ mA}$	50			
Base-emitter voltage		V <sub>BE</sub>	$V_{CE} = 10 \text{ V}, I_{C} = 400 \text{ mA}$			1.0	V
Collector-emitter saturation	voltage	V <sub>CE(sat)</sub>	$I_{\rm C} = 500 \text{ mA}, I_{\rm B} = 50 \text{ mA}$			1.0	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 <sub>FE1</sub>	60 to 140	100 to 240		

### Panasonic



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