2SD1250, 2SD1250A

Silicon NPN triple diffusion planar type

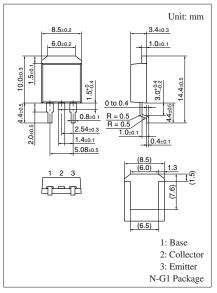
For power amplification
For TV vartical deflection output
Complementary to 2SB0928, 2SB0928A

■ Features

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

■ Absolute Maximum Ratings $T_C = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (En	V _{CBO}	200	V	
Collector-emitter voltage	2SD1250	V _{CEO}	150	V
(Base open)	2SD1250A		180	
Emitter-base voltage (Col	V_{EBO}	6	V	
Collector current	I_C	2	A	
Peak collector current	I_{CP}	3	A	
Collector power dissipation		P _C	30	W
	$T_a = 25$ °C		1.3	
Junction temperature	T_{j}	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	



Note) Self-supported type package is also prepared.

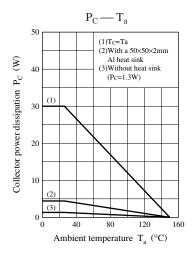
■ Electrical Characteristics $T_C = 25$ °C ± 3 °C

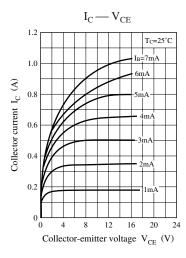
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)		V_{CBO}	$I_C = 500 \mu\text{A}, I_E = 0$	200			V
Collector-emitter voltage	2SD1250	V _{CEO}	$I_{C} = 5 \text{ mA}, I_{B} = 0$	150			V
(Base open)	2SD1250A			180			
Emitter-base voltage (Collector open)		V_{EBO}	$I_E = 500 \ \mu A, I_C = 0$	6			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			
Base-emitter voltage		V_{BE}	$V_{CE} = 10 \text{ V}, I_{C} = 400 \text{ mA}$			1.0	V
Collector-emitter saturation voltage		V _{CE(sat)}	$I_C = 500 \text{ mA}, I_B = 50 \text{ mA}$			1.0	V
Transition frequency		f_T	$V_{CE} = 10 \text{ V}, I_{C} = 0.5 \text{ A}, f = 1 \text{ MHz}$		20		MHz

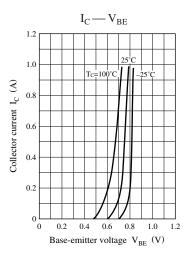
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

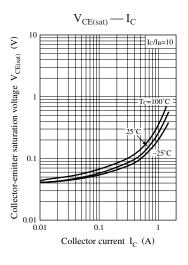
2. *: Rank classification

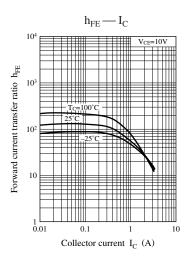
Rank	Q	Р		
$h_{\rm FE1}$	60 to 140	100 to 240		

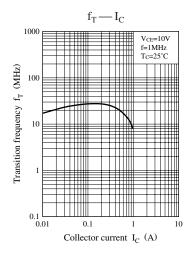


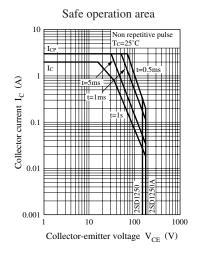


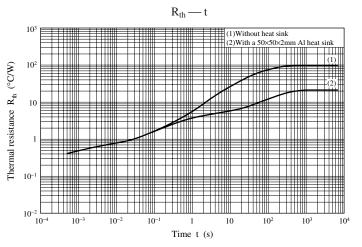












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