2SD1295

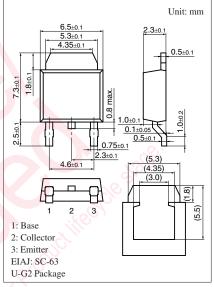
Silicon NPN epitaxial planar type

For low-frequency output amplification Complementary to 2SB0968

Features

- Possible to solder radiation fin directly to printed circuit board
- Output of 4 W can be obtained by a complementary pair with 2SB0968

Absolute Maximum Ratings $T_C = 25^{\circ}C$								
Parameter	Symbol	Rating	Unit					
Collector-base voltage (Emitter open)	V _{CBO}	50	V					
Collector-emitter voltage (Base open)	V _{CEO}	40	V					
Emitter-base voltage (Collector open)	V _{EBO}	5	V					
Collector current	I _C	1.5	А					
Peak collector current	I _{CP}	3	Α					
Collector power dissipation	P _C	10	w .					
Junction temperature	Tj	150	°C					
Storage temperature	T _{stg}	-55 to +150	<°C ₂					



Note) Self-supported type package is also prepared.

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

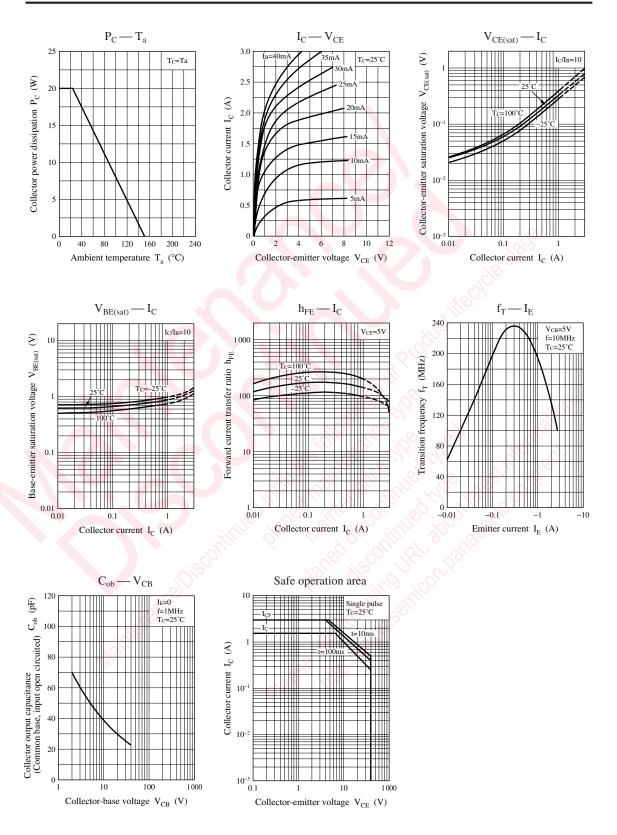
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emiter open)	V _{CBO}	$I_{\rm C} = 1 \text{ mA}, I_{\rm E} = 0$	50	0-		V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 2 \text{ mA}, I_{\rm B} = 0$	40			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 20 V, I_E = 0$			1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 10 \text{ V}, I_B = 0$			100	μΑ
Emiter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = 5 V, I_C = 0$			10	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CE} = 5 V, I_C = 1 A$	80		220	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 1.5 \text{ A}, I_{\rm B} = 0.15 \text{ A}$			1	V
Base-emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = 2 {\rm A}, I_{\rm B} = 0.2 {\rm A}$			1.5	V
Transition frequency	f _T	$V_{CE} = 5 \text{ V}, I_{C} = -0.5 \text{ A}, f = 200 \text{ MHz}$		150		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 20 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		35		pF
(Common base, input open circuited)						

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

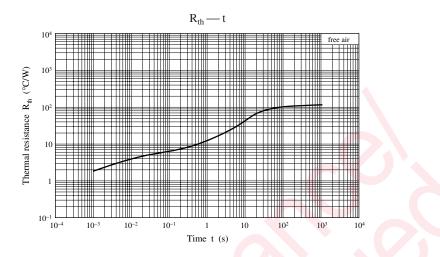
2. *: Rank classification

Rank	R	S	
h _{FE}	80 to 160	120 to 220	

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