2SB0766, 2SB0766A (2SB766, 2SB766A)

Silicon PNP epitaxial planer type

For low-frequency output amplification

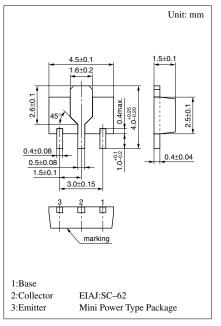
Complementary to 2SD0874 (2SD874) and 2SD0874A (2SD874A)

Features

- Large collector power dissipation P_C .
- Mini Power type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Parameter		Symbol	Ratings	Unit	
Collector to	2SB0766	V	-30	v	
base voltage	2SB0766A	V _{CBO}	-60	v	
Collector to	2SB0766	17	-25	N 7	
emitter voltage	2SB0766A	V _{CEO}	-50	V	
Emitter to base voltage		V_{EBO}	-5	V	
Peak collector current		I _{CP}	-1.5	А	
Collector current		I _C	-1	А	
Collector power dissipation		P_{C}^{*}	1	W	
Junction temperature		Tj	150	°C	
Storage temperature		T _{stg}	-55 ~ +150	°C	

Absolute Maximum Ratings (Ta=25°C)



Marking symbol : A(2SB0766) B(2SB0766A)

* Printed circuit board: Copper foil area of 1cm² or more, and the board thickness of 1.7mm for the collector portion

Electrical Characteristics (Ta=25°C)

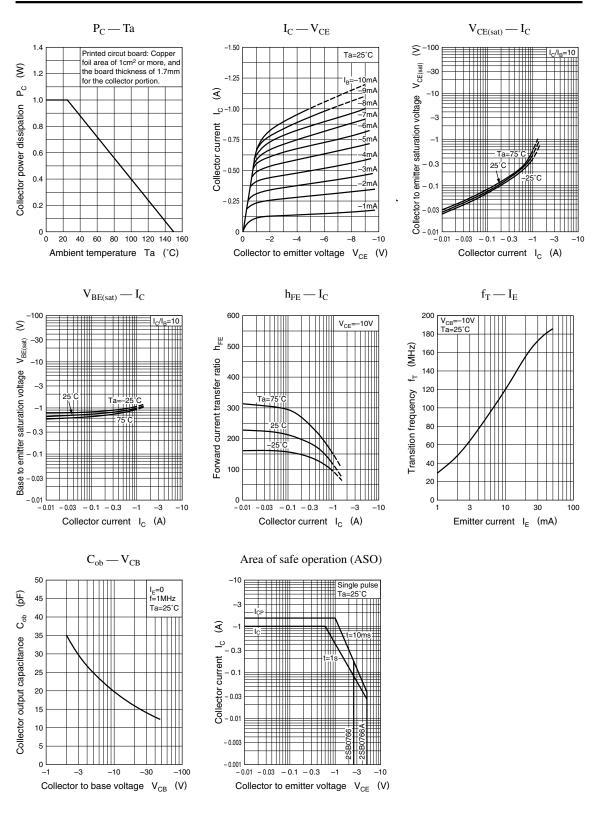
Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff current		I _{CBO}	$V_{CB} = -20V, I_E = 0$			- 0.1	μΑ
Collector to base	2SB0766	V	L = 100A L = 0	-30			v
voltage	2SB0766A	V _{CBO}	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-60			
Collector to emitter	2SB0766	N		-25			v
voltage	2SB0766A	V _{CEO}	$I_{\rm C} = -2mA, I_{\rm B} = 0$	-50			
Emitter to base voltage		V _{EBO}	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio		h _{FE1} *1	$V_{CE} = -10V, I_C = -500mA^{*2}$	85		340	
		h _{FE2}	$V_{CE} = -5V, I_C = -1A^{*2}$	50			
Collector to emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = -500 {\rm mA}, I_{\rm B} = -50 {\rm mA}^{*2}$		- 0.2	- 0.4	V
Base to emitter saturation voltage		V _{BE(sat)}	$I_{\rm C} = -500 {\rm mA}, I_{\rm B} = -50 {\rm mA}^{*2}$		- 0.85	-1.2	V
Transition frequency		f _T	$V_{CB} = -10V, I_E = 50mA, f = 200MHz$		200		MHz
Collector output capacitance		C _{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		20	30	pF

*1hFE1 Rank classification

Rank		Q	R	S
h _{FE1}		85 ~ 170	120 ~ 240	170 ~ 340
Marking	2SB0766	AQ	AR	AS
Symbol	2SB0766A	BQ	BR	BS

*2 Pulse measurement

Note.) The Part numbers in the Parenthesis show conventional part number.



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