2SB0789, 2SB0789A (2SB789, 2SB789A)

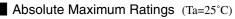
Silicon PNP epitaxial planer type

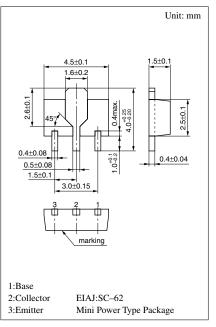
For low-frequency driver amplification Complementary to 2SD0968 (2SD968) and 2SD0968A (2SD968A)

Features

- High collector to emitter voltage V_{CEO} .
- Large collector power dissipation P_C .

Parameter		Symbol	Ratings	Unit		
Collector to	2SB0789	V	-100	V		
base voltage	2SB0789A	V _{CBO}	-120	v		
Collector to	2SB0789	17	-100	V		
emitter voltage	2SB0789A	V _{CEO}	-120	V		
Emitter to base voltage		V _{EBO}	-5	V		
Peak collector current		I _{CP}	-1	А		
Collector current		I _C	-0.5	А		
Collector power dissipation		P_{C}^{*}	1	W		
Junction temperature		Tj	150	°C		
Storage temperature		T _{stg}	-55 ~ +150	°C		





Marking symbol : D(2SB0789) E(2SB0789A)

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

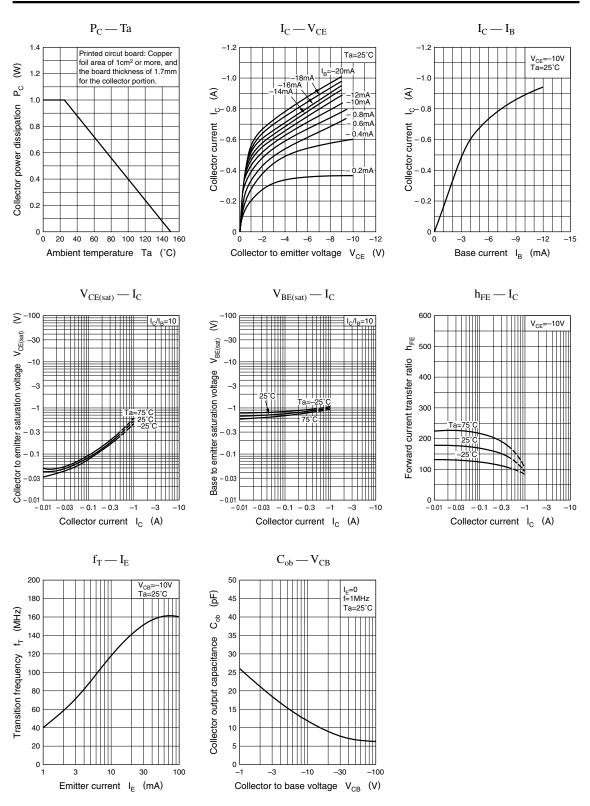
Electrical Characteristics (Ta=25°C)

Parameter		Symbol	Conditions	min	typ	max	Unit
Collector to emitter	2SB0789	N	L 100	-100			v
voltage	2SB0789A	V _{CEO}	$I_{\rm C} = -100 \mu A, I_{\rm B} = 0$	-120			
Collector to base volt	llector to base voltage V_{EBO} $I_E = -10\mu A$, $I_C = 0$		$I_{\rm E} = -10 \mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio		h _{FE1} *	$V_{CE} = -10V, I_C = -150mA$ 90			220	
		h _{FE2}	$V_{CE} = -5V, I_C = -500mA$	50			
Collector to emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = -500 {\rm mA}, I_{\rm B} = -50 {\rm mA}$		- 0.2	- 0.6	V
Base to emitter saturation voltage		V _{BE(sat)}	$I_{\rm C} = -500 {\rm mA}, I_{\rm B} = -50 {\rm mA}$		- 0.85	-1.2	V
Transition frequency		f _T	$V_{CB} = -10V, I_E = 50mA, f = 200MHz$		120		MHz
Collector output capacitance		Cob	$V_{CB} = -10V, I_E = 0, f = 1MHz$			30	pF

*hFE1 Rank classification

Ra	ınk	Q	R	
h _F	Έl	90 ~ 155	130 ~ 220	
Marking	2SB0789	DQ	DR	
Symbol	2SB0789A	EQ	ER	

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



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