2SB0621, 2SB0621A (2SB621, 2SB621A)

Silicon PNP epitaxial planer type

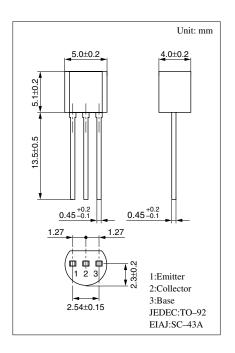
For low-frequency output amplification
Complementary to 2SD0592 (2SD592) and 2SD0592A (2SD592A)

Features

- Low collector to emitter saturation voltage $V_{CE(sat)}$.
- High transition frequency f_T.

Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Ratings	Unit	
Collector to	2SB0621	V	-30	V	
base voltage	2SB0621A	V_{CBO}	-60	V	
Collector to	2SB0621	37	-25	3.7	
emitter voltage	2SB0621A	V_{CEO}	-50	V	
Emitter to base voltage		V_{EBO}	-5	V	
Peak collector current		I_{CP}	-1.5	A	
Collector current		I_C	-1	A	
Collector power dissipation		P_{C}	750	mW	
Junction temperature		T_{j}	150	°C	
Storage temperature		T_{stg}	−55 ~ +150	°C	



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	2SB0621	17	I 100A I 0	-30			V
voltage	2SB0621A	V_{CBO}	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-60			
Collector to emitter	2SB0621			-25			
voltage	2SB0621A	V_{CEO}	$I_{C} = -2mA, I_{B} = 0$	-50			V
Emitter to base voltage		V _{EBO}	$I_E = -10\mu A, I_C = 0$	-5			V
Forward current transfer ratio		h _{FE1} *	$V_{CE} = -10V, I_{C} = -500mA$	85		340	
		h _{FE2}	$V_{CE} = -5V, I_{C} = -1A$	50			
Collector to emitter saturation voltage		V _{CE(sat)}	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$		-0.2	-0.4	V
Base to emitter saturation voltage		V _{BE(sat)}	$IC = -500 \text{mA}, I_B = -50 \text{mA}$		- 0.85	-1.2	V
Transition frequency		f_T	$V_{CB} = -10V$, $I_E = 50$ mA, $f = 200$ MHz		200		MHz
Collector output capacitance		C _{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		20	30	pF

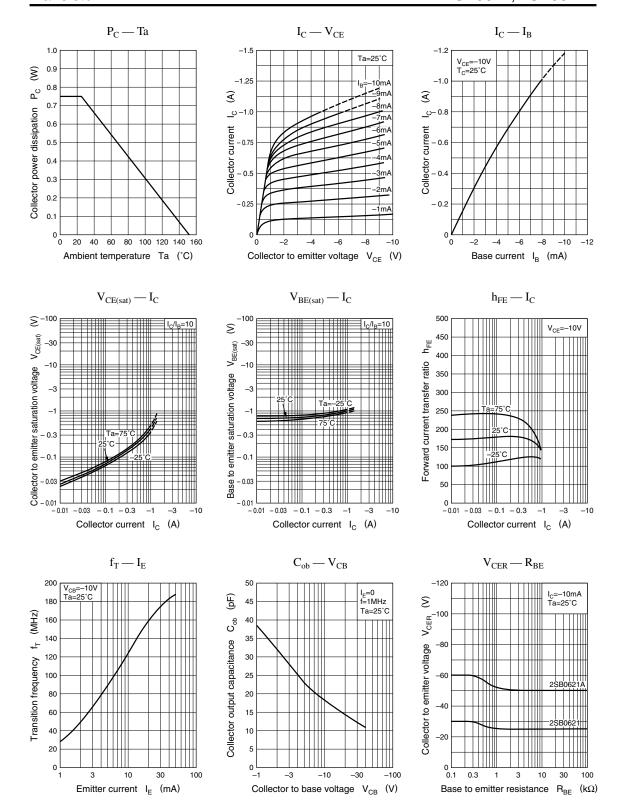
*h_{FE1} Rank classification

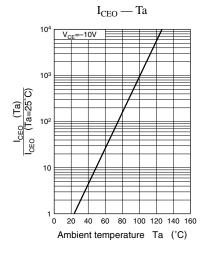
Rank	Q	R	S
h _{FE1}	85 ~ 170	120 ~ 240	170 ~ 340

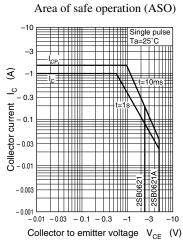
Note.) The Part numbers in the Parenthesis show conventional part number.

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