Panasonic

2SB0929, 2SB0929A (2SB929, 2SB929A)

Silicon PNP epitaxial planar type

For power amplification

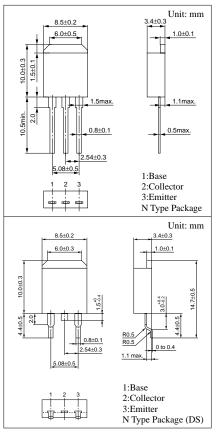
Complementary to 2SD1252 and 2SD1252A

Features

- High forward current transfer ratio h_{FE} which has satisfactory linearity
- Low collector to emitter saturation voltage V_{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 $(1_c=25 \text{ C})$						
Parameter		Symbol	Ratings	Unit		
Collector to	2SB0929	V	-60	v		
base voltage	2SB0929A	V _{CBO}	-80	v		
Collector to	2SB0929	17	-60	v		
emitter voltage	2SB0929A	V _{CEO}	-80			
Emitter to base voltage		V_{EBO}	-5	V		
Peak collector current		I _{CP}	-5	А		
Collector current		I _C	-3	А		
Collector power	T _C =25°C	D	35	***		
dissipation	Ta=25°C	P _C	1.3	W		
Junction temperature		Tj	150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		





Electrical Characteristics $(T_c=25^{\circ}C)$

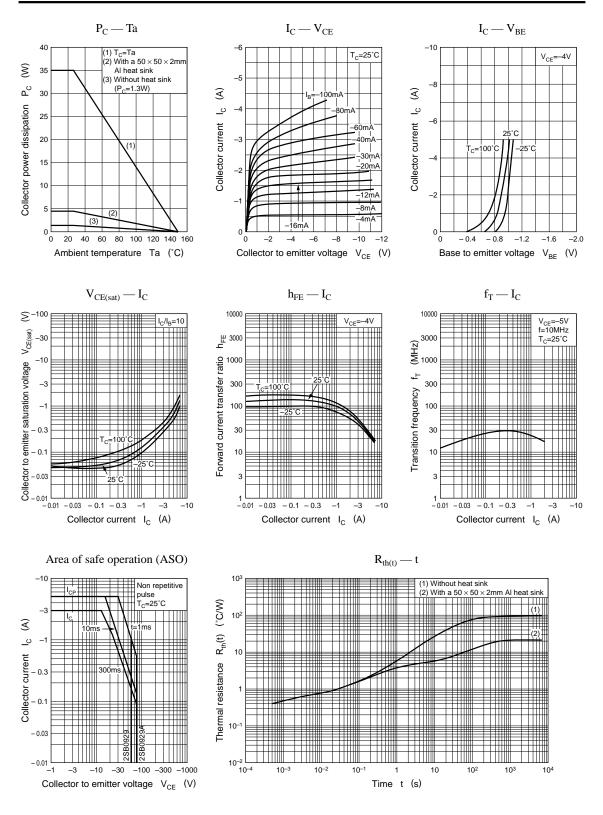
Paramete	er	Symbol	Conditions	min	typ	max	Unit	
Collector cutoff	2SB0929	т	$V_{CE} = -60V, V_{BE} = 0$			-200	- μΑ	
current	2SB0929A	I _{CES}	$V_{CE} = -80V, V_{BE} = 0$			-200		
Collector cutoff	2SB0929	- I _{CEO}	$V_{CE} = -30V, I_B = 0$			-300	- μΑ	
current	2SB0929A		$V_{CE} = -60V, I_B = 0$			-300		
Emitter cutoff curren	t	I _{EBO}	$V_{EB} = -5V, I_C = 0$			-1	mA	
Collector to emitter	2SB0929	V _{CEO}	$I_{\rm C} = -30 {\rm mA}, I_{\rm B} = 0$	-60			- v	
voltage	2SB0929A			-80				
Forward current transfer ratio		h _{FE1} *	$V_{CE} = -4V, I_C = -1A$	70		250		
		h _{FE2}	$V_{CE} = -4V, I_C = -3A$	10				
Base to emitter voltage		V _{BE}	$V_{CE} = -4V, I_C = -3A$			-1.8	V	
Collector to emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = -3A, I_{\rm B} = -0.375A$			-1.2	V	
Transition frequency		f _T	$V_{CE} = -10V, I_C = -0.5A, f = 10MHz$		30		MHz	
Turn-on time		t _{on}			0.5		μs	
Storage time		t _{stg}	$I_{C} = -1A, I_{B1} = -0.1A, I_{B2} = 0.1A$		1.2		μs	
Fall time t _f		t _f			0.3		μs	

^{*}h_{FE1} Rank classification

Rank	Q	Р
h _{FE1}	70 to 150	120 to 250

Note) The part numbers in the parenthesis show conventional part number.

Note: Ordering can be made by the common rank (PQ rank $h_{FE1} = 70$ to 250) in the rank classification.



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