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

Silicon PNP epitaxial planar type

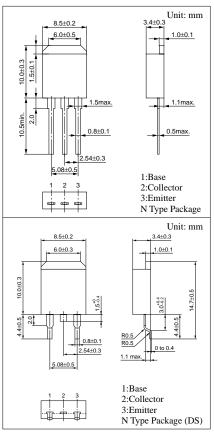
For power amplification
Complementary to 2SD1252 and 2SD1252A

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 (T_C=25°C)

Parameter		Symbol	Ratings	Unit	
Collector to	2SB0929	V	-60	V	
base voltage	2SB0929A	V_{CBO}	-80		
Collector to	2SB0929	37	-60	V	
emitter voltage	2SB0929A	V_{CEO}	-80		
Emitter to base voltage		$V_{\rm EBO}$	-5	V	
Peak collector current		I_{CP}	-5	A	
Collector current		I_C	-3	A	
Collector power	T _C =25°C	D	35	***	
dissipation	Ta=25°C	P_{C}	1.3	W	
Junction temperature		T _j	150	°C	
Storage temperature		T_{stg}	-55 to +150	°C	



Electrical Characteristics (T_C=25°C)

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Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff	2SB0929	-	$V_{CE} = -60V, V_{BE} = 0$			-200	μА
current	2SB0929A	I _{CES}	$V_{CE} = -80V, V_{BE} = 0$			-200	
Collector cutoff	2SB0929	I _{CEO}	$V_{CE} = -30V, I_{B} = 0$			-300	μА
current	2SB0929A		$V_{CE} = -60V, I_{B} = 0$			-300	
Emitter cutoff current		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)}	$I_C = -3A, I_B = -0.375A$			-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		$t_{\rm f}$			0.3		μs

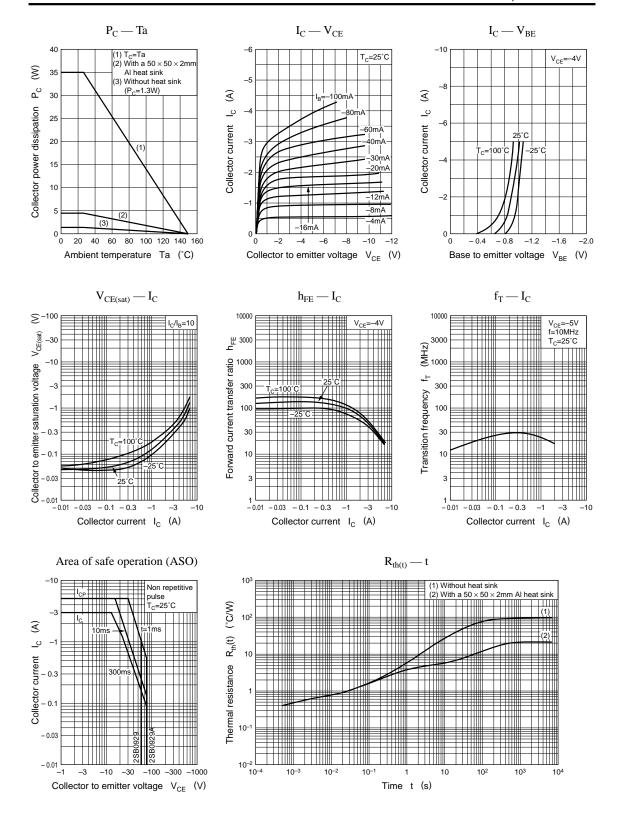
*h_{FE1} Rank classification

Rank	Q	P
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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