2SD1423, 2SD1423A

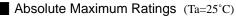
Silicon NPN epitaxial planer type

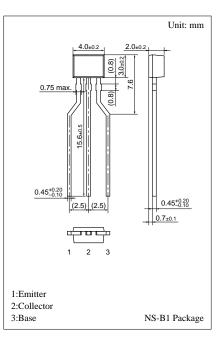
For low-frequency amplification Complementary to 2SB1030 and 2SB1030A

Features

- Optimum for high-density mounting.
- Allowing supply with the radial taping.

— 5 ()						
Parameter		Symbol	Ratings	Unit		
Collector to	2SD1423	V	30	V		
base voltage	2SD1423A	V _{CBO}	60			
Collector to	2SD1423	17	25	17		
emitter voltage	2SD1423A	V _{CEO}	50	V		
Emitter to base voltage		V_{EBO}	7	V		
Peak collector current		I _{CP}	1	А		
Collector current		I_{C}	0.5	А		
Collector power dissipation		P _C	300	mW		
Junction temperature		Tj	150	°C		
Storage temperature		T _{stg}	-55 ~ +150	°C		





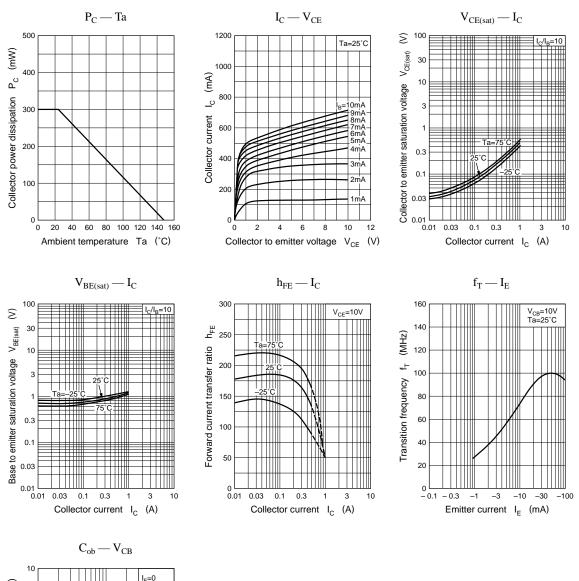
Electrical Characteristics (Ta=25°C)

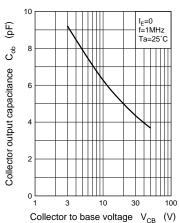
Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff current		I _{CBO}	$V_{CB} = 20V, I_E = 0$			0.1	μΑ
		I _{CEO}	$V_{CE} = 20V, I_B = 0$			1	μA
Collector to base	2SD1423	N	$I_C = 10 \mu A, I_E = 0$	30			v
voltage	2SD1423A	V _{CBO}		60			
Collector to emitter	2SD1423	37	$I_{\rm C} = 2 {\rm mA}, I_{\rm B} = 0$	25			- v
voltage	2SD1423A	V _{CEO}		50			
Emitter to base voltage		V _{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	7			V
Forward current transfer ratio		h _{FE1} *1	$V_{CE} = 10V, I_C = 150mA^{*2}$	85		340	
		h _{FE2}	$V_{CE} = 10V, I_C = 500mA^{*2}$	40			
Collector to emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = 300 {\rm mA}, I_{\rm B} = 30 {\rm mA}^{*2}$			0.6	v
Transition frequency		f _T	$V_{CB} = 10V, I_E = -50mA, f = 200MHz$		200		MHz
Collector output capacitance C		C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		6	15	pF

*2 Pulse measurement

*1hFE1 Rank classification

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





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