2SD1992A

Silicon NPN epitaxial planer type

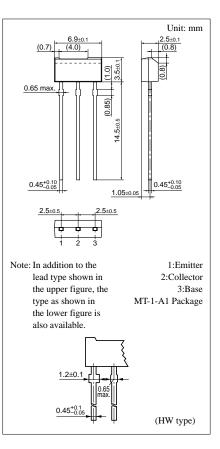
For low-frequency power strengthening and drive Complementary to 2SB1321A

Features

- Low collector to emitter saturation voltage V_{CE(sat)}.
- Allowing supply with the radial taping.

Parameter	Symbol	Ratings	Unit			
Collector to base voltage	V _{CBO}	60	V			
Collector to emitter voltage	V _{CEO}	50	V			
Emitter to base voltage	V _{EBO}	7	V			
Peak collector current	I _{CP}	1	А			
Collector current	I _C	500	mA			
Collector power dissipation	P _C	600	mW			
function temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 ~ +150	°C			
Collector current Collector power dissipation function temperature	I _C P _C T _j	600 150	mA mW °C			

Absolute Maximum Ratings (Ta=25°C)



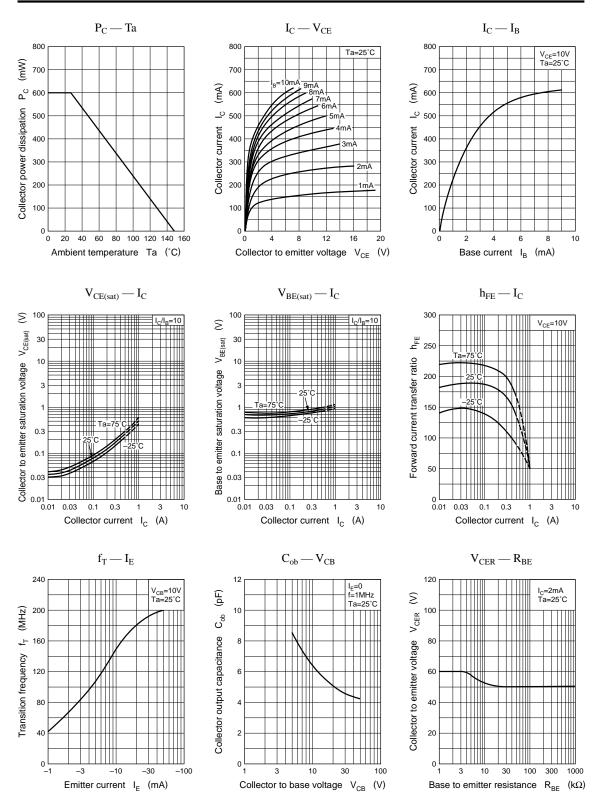
Electrical Characteristics (Ta=25°C)

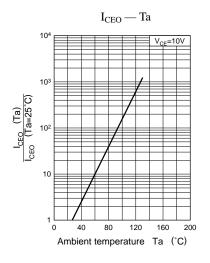
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 20V, I_E = 0$			0.1	μΑ
	I _{CEO}	$V_{CE} = 20V, I_B = 0$			1	μΑ
Collector to base voltage	V _{CBO}	$I_{C} = 10 \mu A, I_{E} = 0$	60			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 2mA, I_{\rm B} = 0$	50			V
Emitter to base voltage	V _{EBO}	$I_E = 10\mu A$, $I_C = 0$	7			V
Forward current transfer ratio	h _{FE1} *1	$V_{CE} = 10V, I_C = 10mA^{*2}$	85	160	340	
	h _{FE2}	$V_{CE} = 10V, I_C = 500mA^{*2}$	40	90		
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 300 {\rm mA}, I_{\rm B} = 30 {\rm mA}^{*2}$		0.35	0.6	V
Transition frequency	f _T	$V_{CB} = 10V, I_E = -10mA, f = 200MHz$		200		MHz
Collector output capacitance	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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