2SB0954, 2SB0954A (2SB954, 2SB954A)

Silicon PNP epitaxial planar type

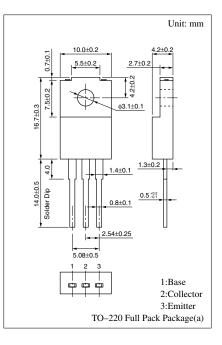
For power amplification

Features

- High forward current transfer ratio h_{FE} which has satisfactory linearity
- Low collector to emitter saturation voltage $V_{CE(sat)}$
- Full-pack package which can be installed to the heat sink with one screw

Parameter		Symbol			
		Cymbol	Tiatingo	Unit	
Collector to	2SB0954	V	-60	V	
base voltage	2SB0954A	V _{CBO}	-80		
Collector to	2SB0954	V	-60	V	
emitter voltage	2SB0954A	V _{CEO}	-80		
Emitter to base voltage		V_{EBO}	-5	V	
Peak collector current		I _{CP}	-2	А	
Collector current		I _C	-1	А	
Collector power	T _C =25°C	D	30	W	
dissipation	Ta=25°C	P _C	2		
Junction temperature		Tj	150	°C	
Storage temperature		T _{stg}	-55 to +150	°C	





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

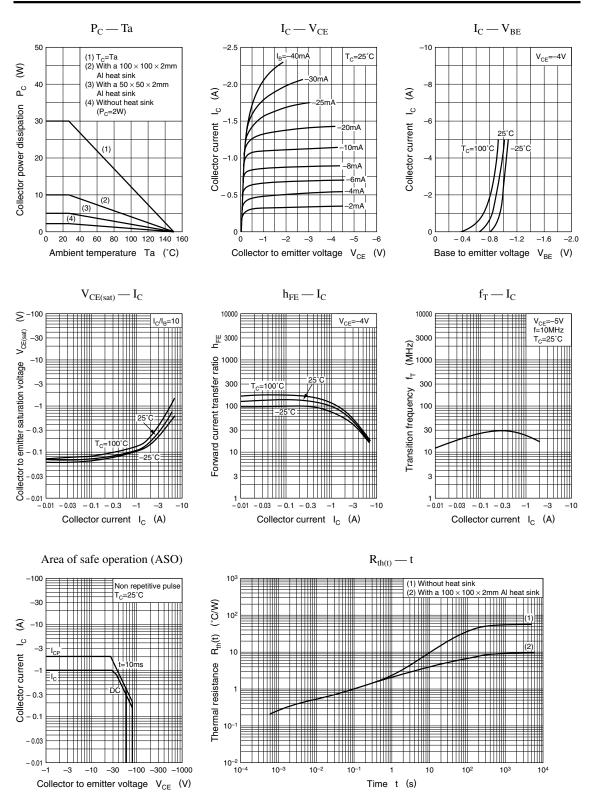
Parameter		Symbol	Conditions	min	typ	max	Unit	
Collector cutoff	2SB0954	I _{CEO}	$V_{CE} = -30V, I_B = 0$			-300		
current	2SB0954A		$V_{CE} = -60V, I_B = 0$			-300	μA	
Collector cutoff	2SB0954	- I _{CES}	$V_{CE} = -60V, V_{BE} = 0$			-200	- μΑ	
current	2SB0954A		$V_{CE} = -80V, V_{BE} = 0$			-200		
Emitter cutoff current		I _{EBO}	$V_{\rm EB} = -5V, I_{\rm C} = 0$			-1	mA	
Collector to emitter	2SB0954	V _{CEO}	$I_{\rm C} = -30 {\rm mA}, I_{\rm B} = 0$	-60			v	
voltage	2SB0954A			-80				
Forward current transfer ratio		h _{FE1} *	$V_{CE} = -4V, I_C = -0.2A$	70		250		
		h _{FE2}	$V_{CE} = -4V, I_C = -1A$	15				
Collector to emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = -1A, I_{\rm B} = -0.125A$			-1	v	
Base to emitter voltage		V _{BE}	$V_{CE} = -4V, I_C = -1A$			-1.3	v	
Transition frequency		f _T	$V_{CE} = -5V, I_C = -0.2A, f = 10MHz$		30		MHz	
Turn-on time		t _{on}			0.5		μs	
Storage time		t _{stg}	$I_{\rm C} = -1{\rm A}, I_{\rm B1} = -0.1{\rm A}, I_{\rm B2} = 0.1{\rm A},$		1.2		μs	
Fall time		t _f	$V_{CC} = -50V$		0.3		μs	

*h_{FE1} Rank classification

Rank	Q	Р
$h_{\rm FE1}$	70 to 150	120 to 250

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

Power Transistors



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