2SB935, 2SB935A

Silicon PNP epitaxial planar type

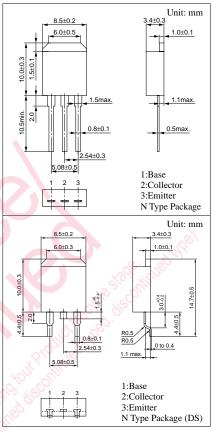
For low-voltage switching

Features

- Low collector to emitter saturation voltage V_{CE(sat)}
- High-speed switching •
- N type package enabling direct soldering of the radiating fin to the printed circuit board, etc. of small electronic equipment.

Absolute Maximum Ratings $(T_c=25^{\circ}C)$					
Parameter		Symbol	Ratings	Unit	
Collector to	2SB935	17	-40	v	
base voltage	2SB935A	V _{CBO}	-50	v	
Collector to	2SB935	17	-20	v	
emitter voltage	2SB935A	V _{CEO}	-40	V	
Emitter to base voltage		V _{EBO}	-5	V	
Peak collector current		I _{CP}	-15	А	
Collector current		I _C	-10	Α	
Collector power	T _C =25°C	D	35	W	
dissipation	Ta=25°C	P _C	1.3	vv	
Junction temperature		Tj	150	°C	
Storage temperature		T _{stg}	-55 to +150	°C	

Absolute Maximum Patings (T 2500

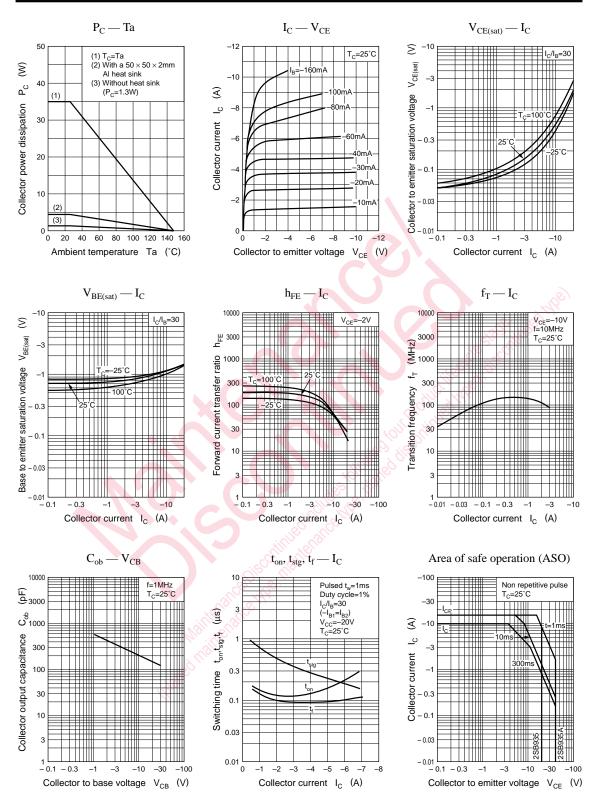


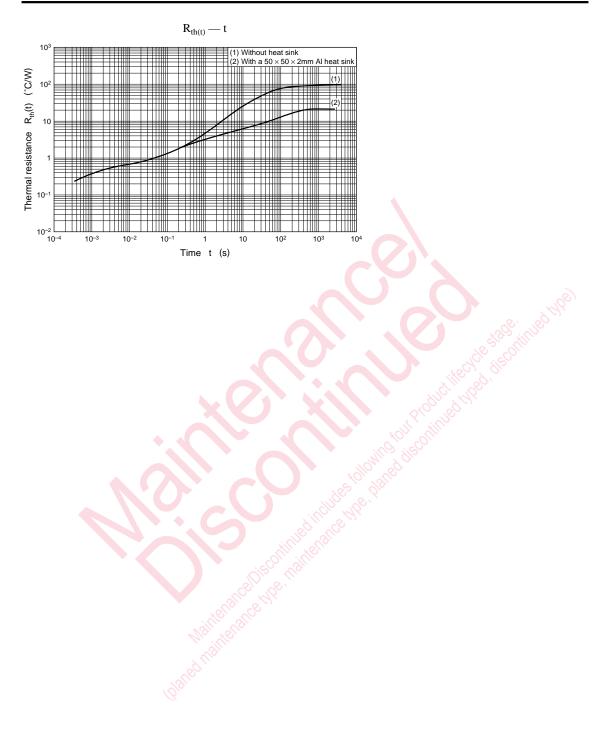
Electrical Characteristics $(T_c=25^{\circ}C)$

Paramete	er	Symbol	Conditions	min	typ	max	Unit
Collector cutoff	2SB935		$V_{CB} = -40V, I_E = 0$			-50	
current	2SB935A	- I _{CBO}	$V_{CB} = -50V, I_E = 0$			-50	μA
Emitter cutoff current		I _{EBO}	$V_{EB} = -5V, I_C = 0$			-50	μA
Collector to emitter	2SB935	V _{CEO}	$I_{\rm C} = -10 {\rm mA}, I_{\rm B} = 0$	-20			- v
voltage	2SB935A			-40			
Forward current transfer ratio		h _{FEI}	$V_{CE} = -2V, I_C = -0.1A$	45			
		h _{FE2} *	$V_{CE} = -2V, I_C = -2A$	90		260	
Collector to emitter saturation voltage		V _{CE(sat)}	$I_C = -7A, I_B = -0.23A$			- 0.6	v
Base to emitter saturation voltage		V _{BE(sat)}	$I_C = -7A, I_B = -0.23A$			-1.5	V
Transition frequency		f _T	$V_{CE} = -10V, I_C = -0.5A, f = 10MHz$		150		MHz
Collector output capacitance		C _{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		200		pF
Turn-on time		t _{on}	$I_{\rm C} = -2A, I_{\rm B1} = -66mA, I_{\rm B2} = 66mA$		0.1		μs
Storage time		t _{stg}			0.5		μs
Fall time		t _f			0.1		μs

*hFE2 Rank classification

Rank	Q	Р
h _{FE2}	90 to 180	130 to 260





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