

# 2SB1233, 2SB1233A

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## Silicon PNP Epitaxial Planar Type

### Power Amplifier

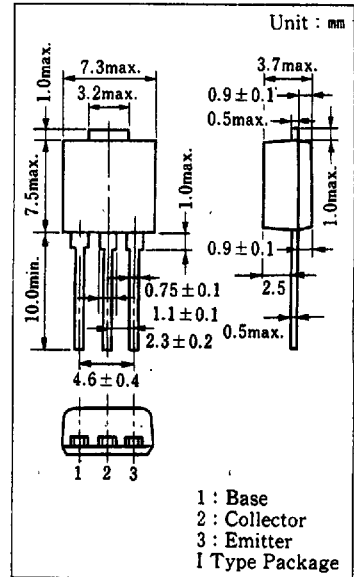
#### ■ Features

- High collector-emitter voltage ( $V_{CE0}$ )
- Wide area of safety operation (ASO)
- "I Type" package configuration with a cooling fin for direct soldering on PC board of a small-size electronic equipment

#### ■ Absolute Maximum Ratings ( $T_c=25^\circ\text{C}$ )

Item	Symbol	Value	Unit	
Collector-base voltage	2SB1233	-200	V	
	2SB1233A	-200		
Collector-emitter voltage	2SB1233	-150	V	
	2SB1233A	-180		
Emitter-base voltage	$V_{EBO}$	-6	V	
Peak collector current	$I_{CP}$	-2	A	
Collector current	$I_C$	-1	A	
Collector power dissipation	$P_C$	$T_c=25^\circ\text{C}$	15	W
		$T_a=25^\circ\text{C}$	1.3	
Junction temperature	$T_j$	150	$^\circ\text{C}$	
Storage temperature	$T_{stg}$	-55 ~ +150	$^\circ\text{C}$	

#### ■ Package Dimensions



\*Surface-mount type is also available. (Refer to p.81.)

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

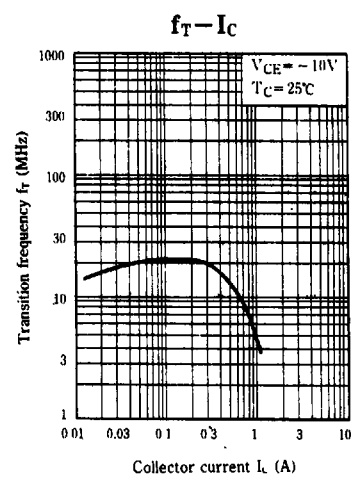
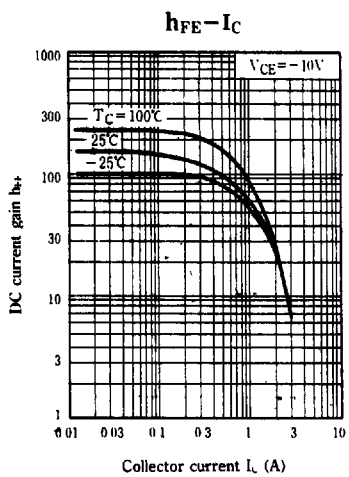
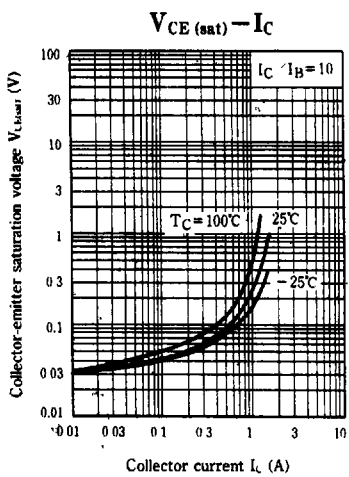
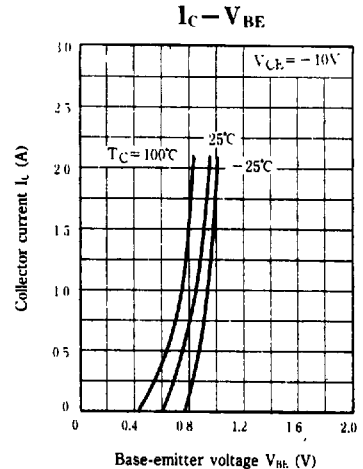
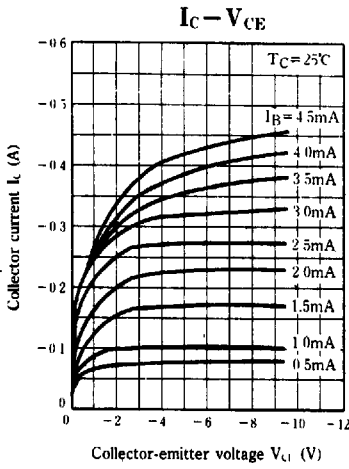
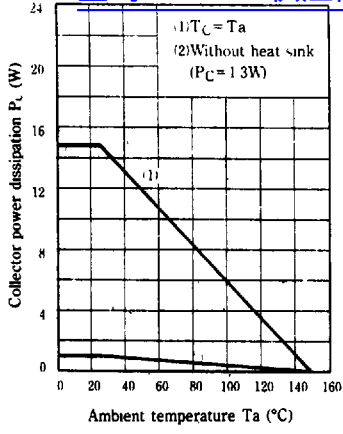
Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = -200\text{V}, I_E = 0$			-50	$\mu\text{A}$
Emitter cutoff current	$I_{EBO}$	$V_{EB} = -4\text{V}, I_C = 0$			-50	$\mu\text{A}$
Collector-emitter voltage	$V_{CEO}$	$I_C = -5\text{mA}, I_B = 0$	-150			V
			-180			
Emitter-base voltage	$V_{EBO}$	$I_E = -0.5\text{mA}, I_C = 0$	-6			V
DC current gain	$h_{FE1}^*$	$V_{CE} = -10\text{V}, I_C = -100\text{mA}$	60		240	
	$h_{FE2}$	$V_{CE} = -10\text{V}, I_C = -300\text{mA}$	50			
Base-emitter voltage	$V_{BE}$	$V_{CE} = -10\text{V}, I_C = -300\text{mA}$			-1	V
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}, I_B = -50\text{mA}$			-1	V
Transition frequency	$f_T$	$V_{CE} = -10\text{V}, I_C = -100\text{mA}, f = 1\text{MHz}$		20		MHz
Collector output capacitance	$C_{ob}$	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$		35		pF

#### \* $h_{FE1}$ Classifications

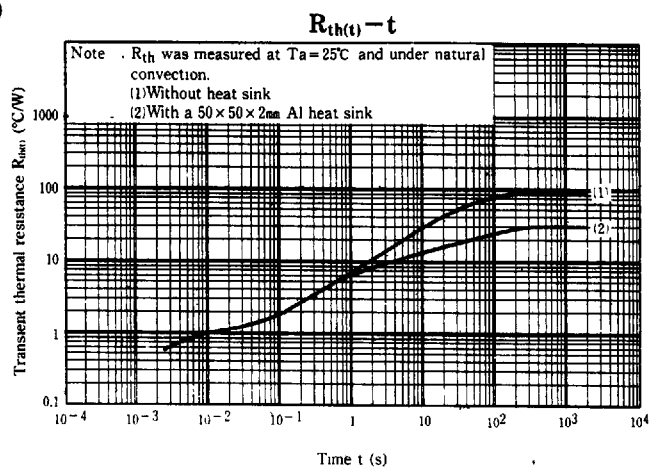
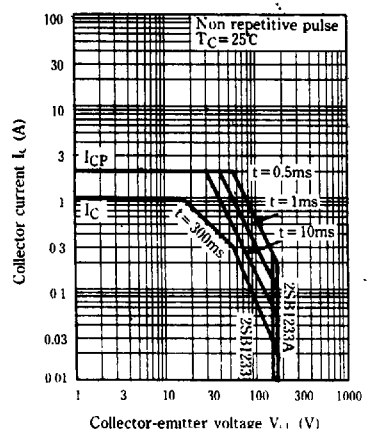
Class	Q	P
$h_{FE1}$	60~140	100~240

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Safety operation area-forward bias (ASO)



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