

2SB1118/2SD1618

Low-Voltage High-Current Amplifier, Muting Applications

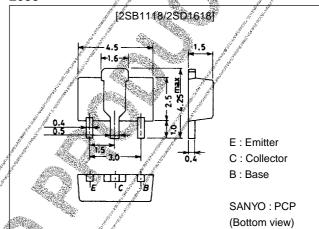
Features

- · Low collector-to-emitter saturation voltage.
- · Very small size making it easy to provide highdensity, small-sized hybrid IC's.

Package Dimensions

unit:mm

2038



():2SB1118

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter		Symbol	Ratings	Unit
Collector-to-Base Voltage		VCBO	(-)20	V
Collector-to-Emitter Voltage		Voeo //	(–)15	V
Emitter-to-Base Voltage		VEBO	(-)5	V
Collector Current	A	/ Ic	(-)0.7	Α
Collector Current (Pulse)	£. \$ 100 m	ICR	(–)1.5	Α
Collector Dissipation	A A	Mounted on ceramic board (250mm²×0.8mm)	500	mW
		Mounted on ceramic board (250mm²×0.8mm)	1.3	W
Junction Temperature	1/1		150	°C
Storage Temperature	// As	Tstg	−55 to +150	°C

Electrical Characteristics at Ta = 25 °C

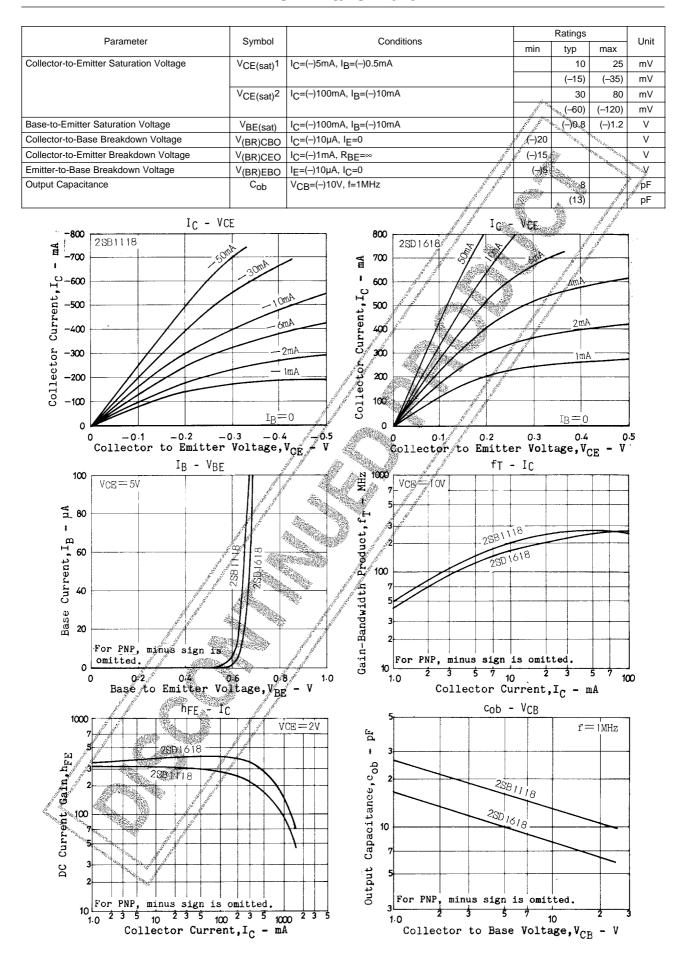
	Symbol	Conditions	Ratings			Unit
raianieter			min	typ	max	Offic
Collector Cutoff Current	I _{CBQ} /	V _{CB} =(-)15V, I _E =0			(-)0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(-)0.1	μA
DC Current Gain	þF∉Í	V _{CE} =(-)2V, I _C =(-)50mA	140*		560*	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ hFE2	V _{CE} =(-)2V, I _C =(-)500mA	60			
Gain-Bandwidth Product	∮ f _T	V _{CE} =(-)10V, I _C =(-)50mA		250		MHz

* ; The 2SB/11/8/2SD1618 are classified by 50mA h_{FE} as follows :

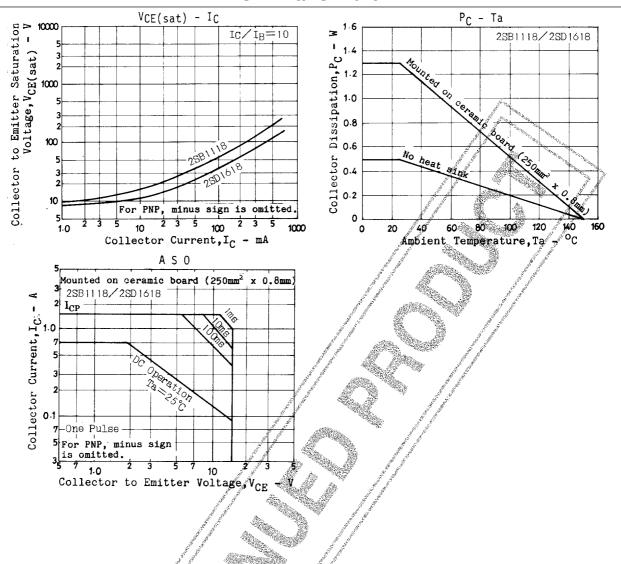
Marking 2SB1118 : BA 2SD1618 : DA h_{FE} rank : S, T, U

- 140 S 280 200 T 400 280 U 560
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