

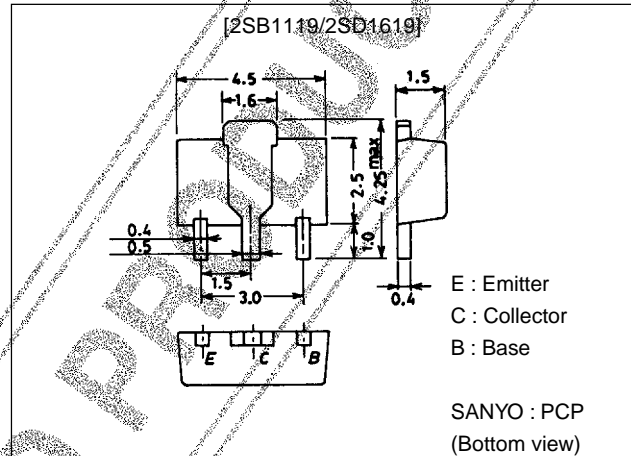
SANYO**2SB1119/2SD1619****LF Amplifier, Electronic Governor Applications****Features**

- Very small size making it easy to provide high-density, small-sized hybrid IC's.

Package Dimensions

unit:mm

2038



() : 2SB1119

Specifications**Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CB0}		(-25)	V
Collector-to-Emitter Voltage	V_{CE0}		(-25)	V
Emitter-to-Base Voltage	V_{EB0}		(-5)	V
Collector Current	I_C		(-1)	A
Collector Current (Pulse)	I_{CP}		(-2)	A
Collector Dissipation	P_C	Mounted on ceramic board (250mm ² ×0.8mm)	500	mW
Junction Temperature	T_j		150	°C
Storage Temperature	T_{stg}		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)20V, I_E = 0$			(-0.1)	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)4V, I_C = 0$			(-0.1)	μA
DC Current Gain	h_{FE1}	$V_{CE} = (-)2V, I_C = (-)50mA$	100*		560*	
	h_{FE2}	$V_{CE} = (-)2V, I_C = (-)1A$	40			
Gain-Bandwidth Product	f_T	$V_{CE} = (-)10V, I_C = (-)50mA$		180		MHz

* : The 2SB1119/2SD1619 are classified by 50mA h_{FE} as follows :

100	R	200	140	S	280	200	T	400	280	U	560
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Marking 2SB1119 : BB

2SD1619 : DB

 h_{FE} rank : R, S, T, U

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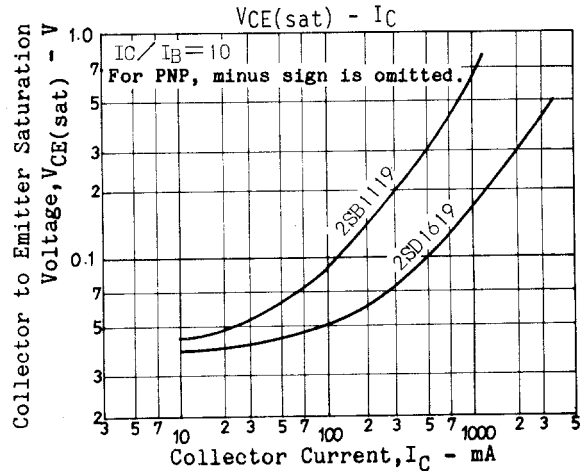
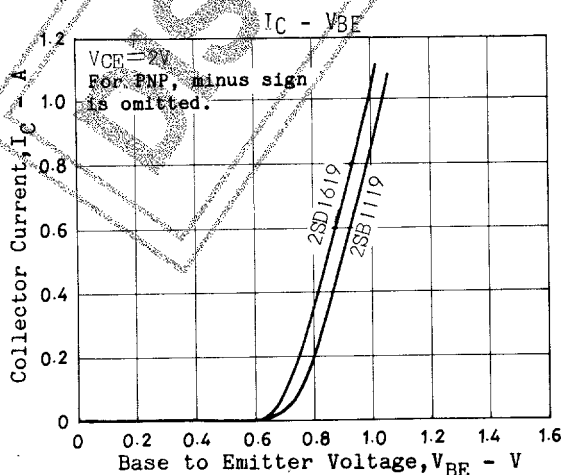
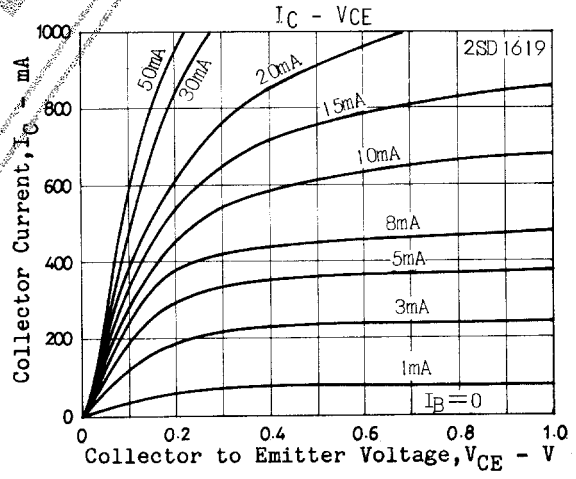
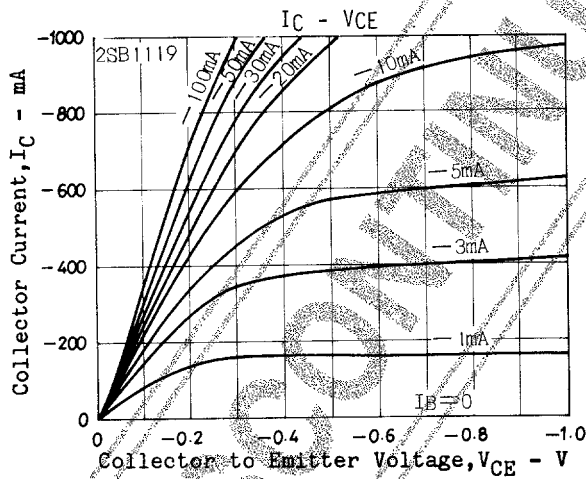
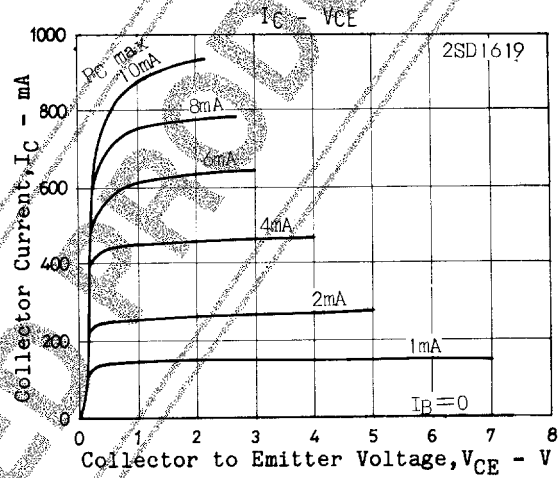
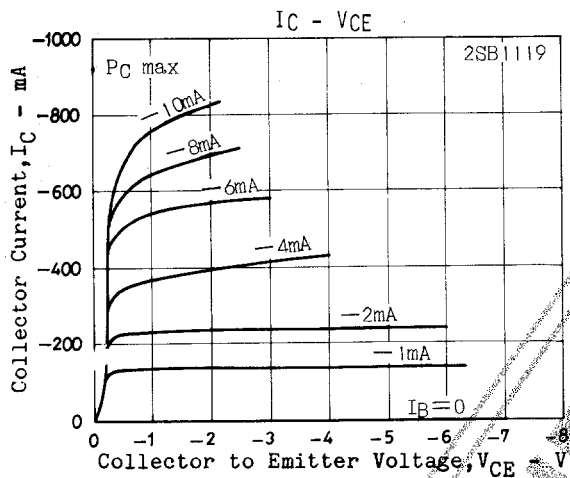
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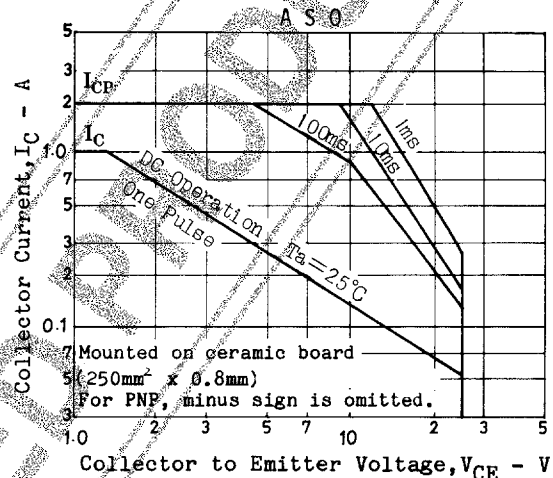
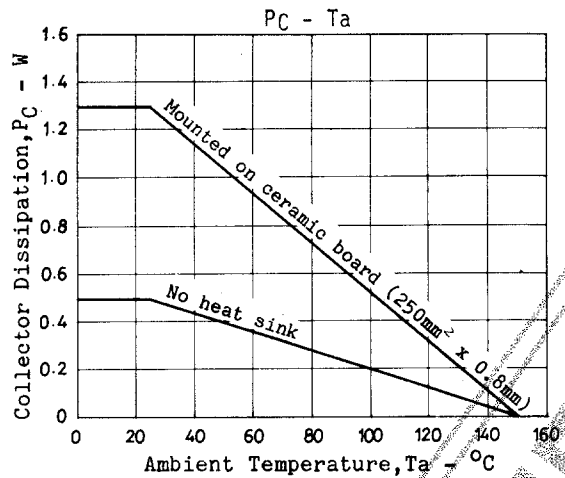
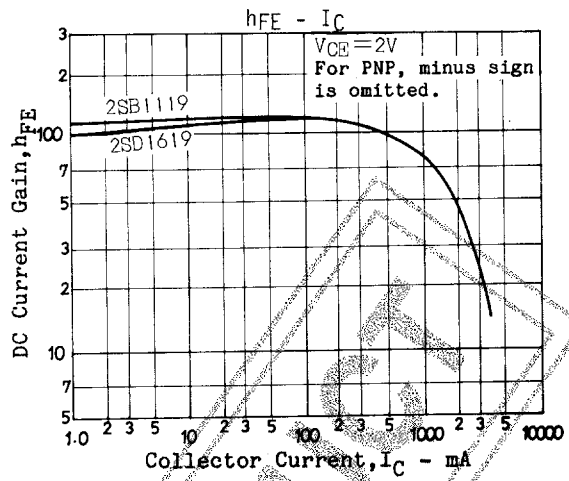
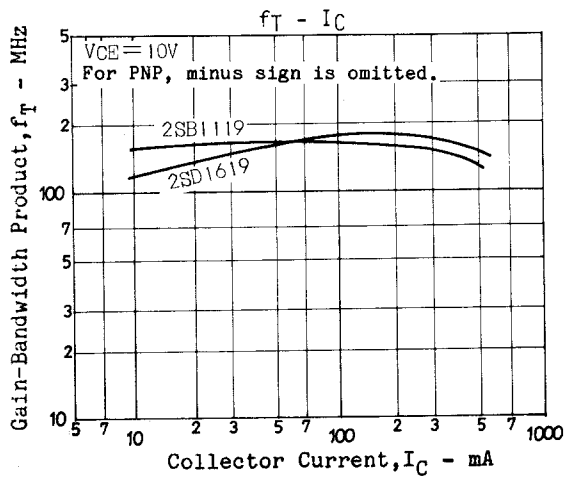
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

2SB1119/2SD1619

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)500mA, I_B=(-)50mA$		0.1	0.3	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=(-)500mA, I_B=(-)50mA$		(-0.15)	(-0.7)	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=(-)10\mu A, I_E=0$	(-)	25		V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=(-)1mA, R_{BE}=\infty$	(-)	25		V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=(-)10\mu A, I_C=0$	(-)	5		V
Output Capacitance	C_{ob}	$V_{CB}(-)10V, f=1MHz$		15		pF
				(25)		pF



2SB1119/2SD1619



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