



2SB1266/2SD1902

AF Power Amplifier Applications

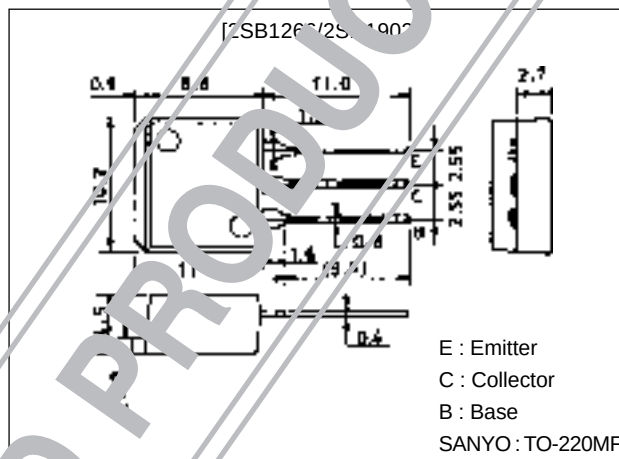
Features

- Suitable for sets whose height is restricted.
- Wide ASO (adoption of MBIT process).
- High reliability.

Package Dimensions

unit:mm

2049B



() : 2SB1266

Specifications

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CB0}		(-)60	V
Collector-to-Emitter Voltage	V_{CE0}		(-)60	V
Emitter-to-Base Voltage	V_{EB0}		(-)6	V
Collector Current	I_C		(-)3	A
Collector Current (Pulse)	I_{CP}		(-)8	A
Collector Dissipation	P_C		1.65	W
		$T_A = 25^{\circ}\text{C}$	30	W
Junction Temperature	T_J		150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings		Unit
			min	typ	
Collector Cutoff Current	I_{CBO}	$V_{CB}=(-)40V, I_E=0$			$(-)100 \mu A$
Emitter Cutoff Current	I_{EBO}	$V_{EB}=(-)4V, I_C=0$			$(-)100 \mu A$
DC Current Gain	h_{FE1}	$V_{CE}=(-)5V, I_C=(-)0.5A$	70*		280*
	h_{FE2}	$V_{CE}=(-)5V, I_C=(-)3A$	20		
Gain-Bandwidth Product	f_T	$V_{CE}=(-)5V, I_C=(-)0.5A$		(8)40	MHz
Output Capacitance	C_{ob}	$V_{CB}=(-)10V, f=1MHz$		(60)	pF
				110	pF

* : The 2SB1266/2SB1267 are classified by 0.5A h_{FE} as follows :

70	Q	140	100	R	200	140	S	280
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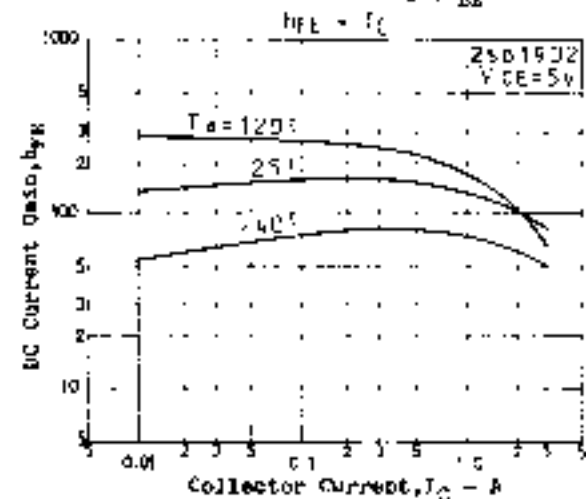
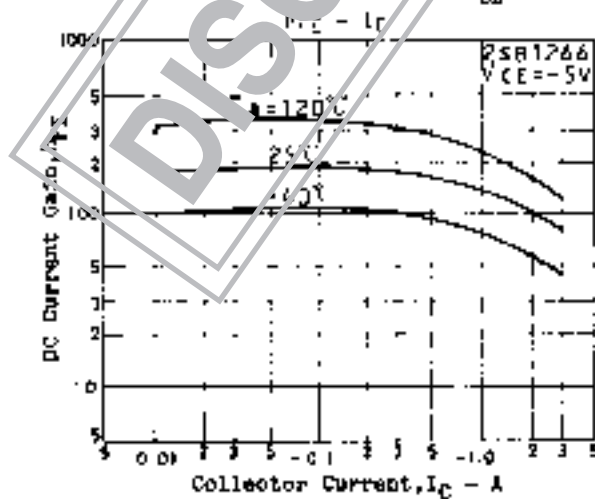
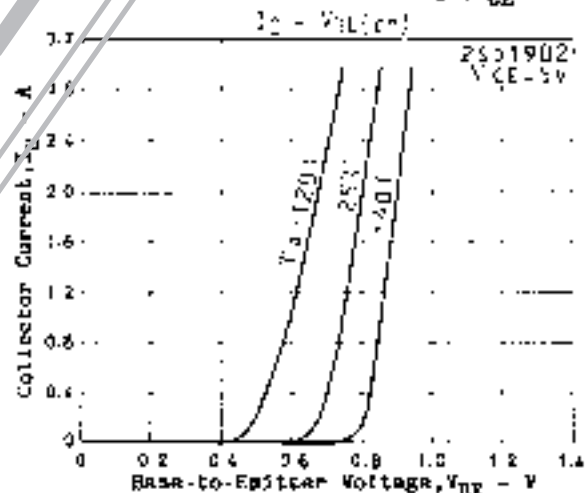
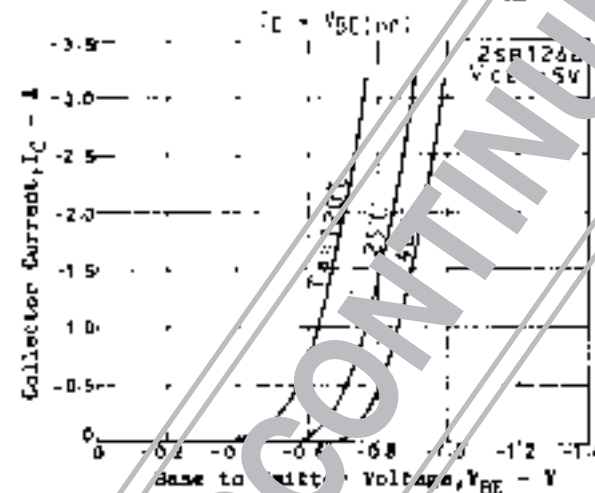
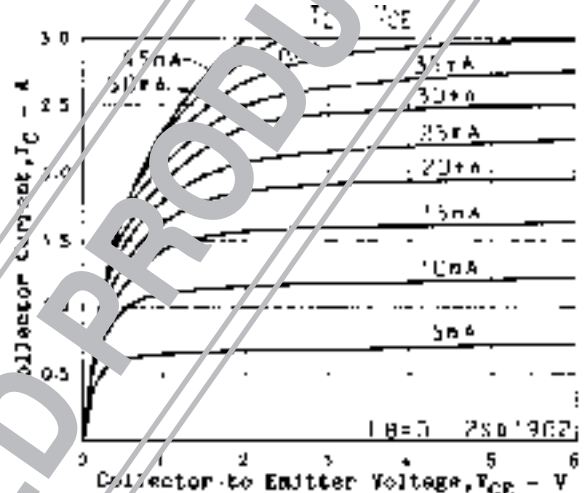
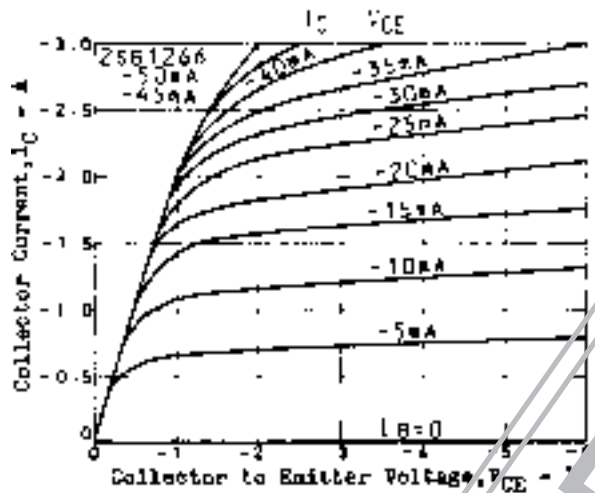
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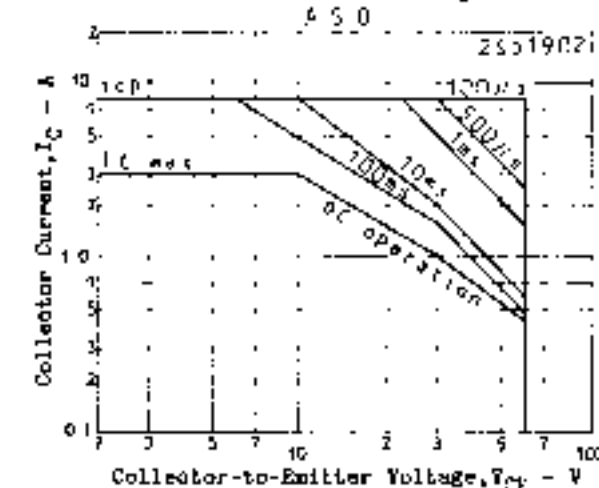
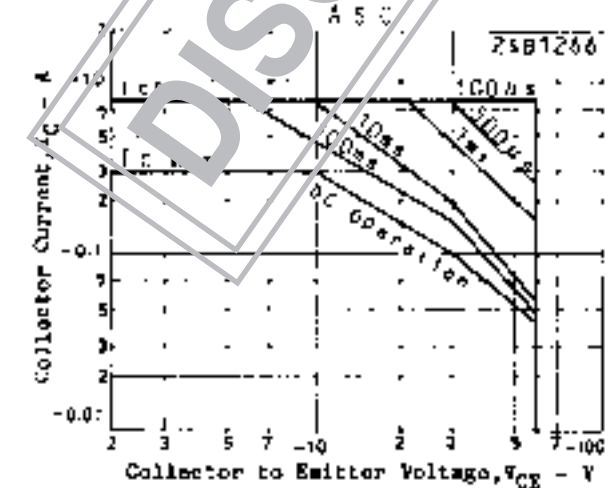
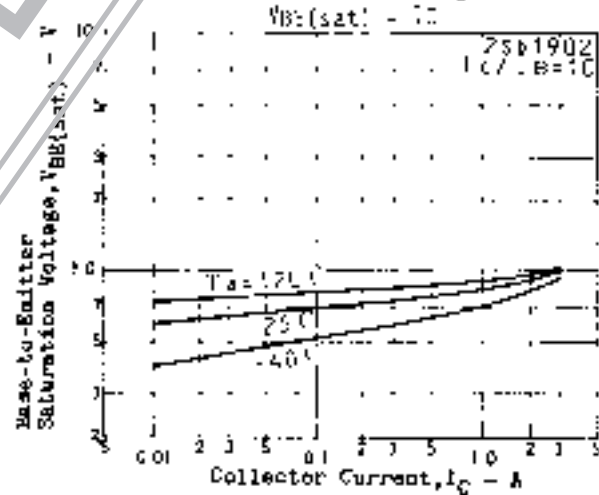
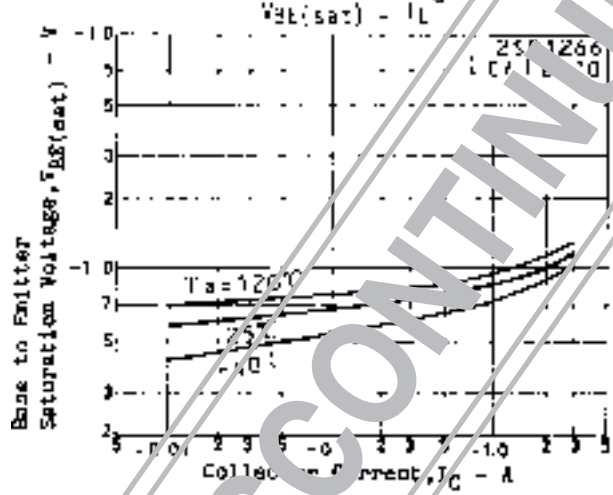
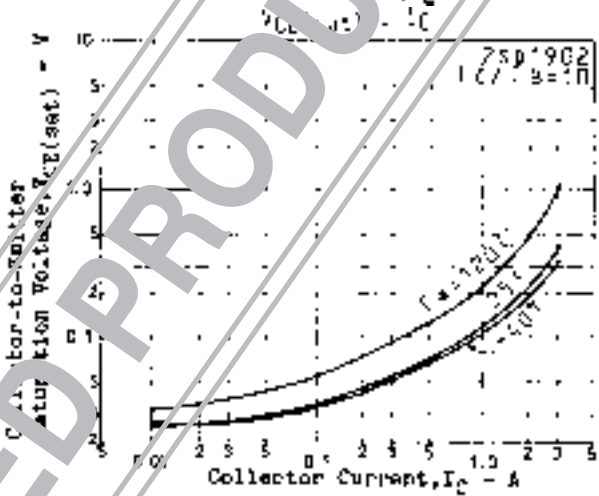
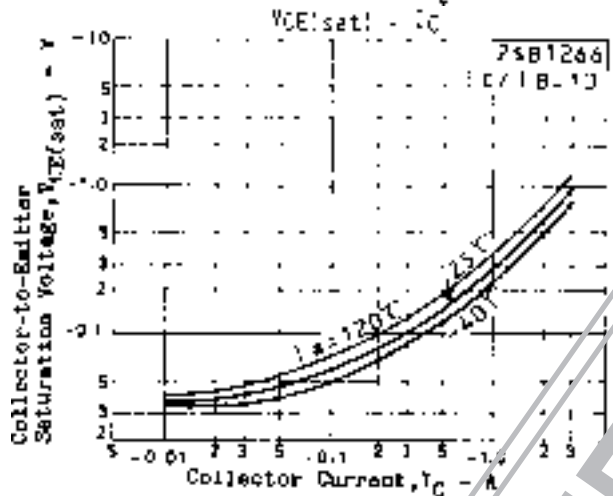
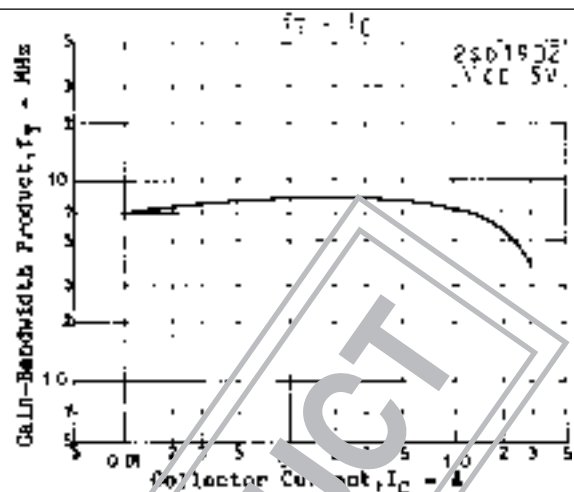
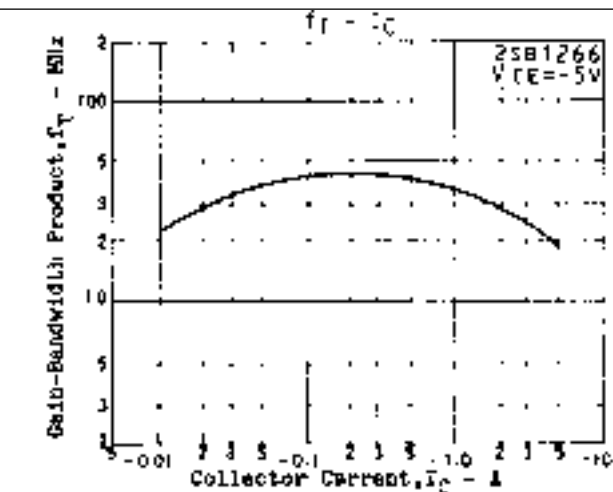
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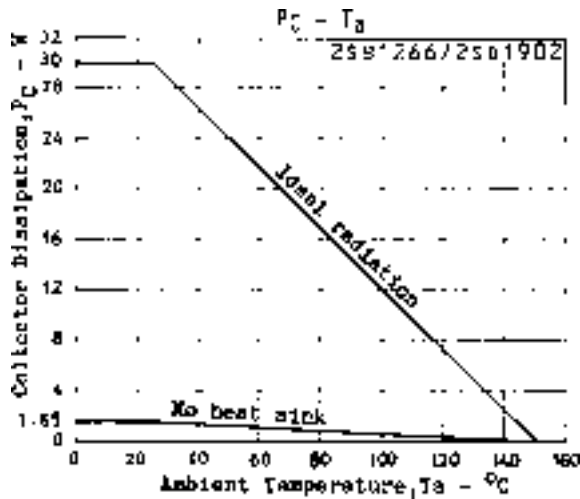
O1598HA (KT)/D251MH/4167TA, TS No.2538-1/4

2SB1266/2SD1902

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)2A, I_B=(-)0.2A$		$(-)0.4$	$(-)1$	V
Base-to-Emitter Voltage	V_{BE}	$I_{CE}=(-)5V, I_C=(-)0.5A$		$(-)0.7$	$(-)1$	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=(-)1mA, I_E=0$	$(-)60$			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=(-)5mA, R_{BE}=\infty$	$(-)60$			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=(-)1mA, I_C=0$	$(-)6$			V







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