

## 2SB1266/2SD1902

# **AF Power Amplifier Applications**

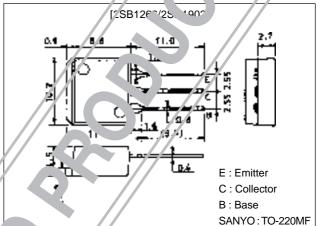
#### **Features**

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

### **Package Dimensions**

unit:mm

2049B



(): 2SB1266

### **Specifications**

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

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V <sub>CPO</sub>		(-)60	V
Collector-to-Emitter Voltage	VCEO		(–)60	V
Emitter-to-Base Voltage	V <sub>ZBO</sub>		(-)6	V
Collector Current	I <sub>C</sub>		(-)3	Α
Collector Current (Pulse)	ICP	. //	(–)8	Α
Collector Dissipation	Po	//	1.65	W
	1 25°C	; //	30	W
Junction Temperature	Ti	//	150	°C
Storage Temperature	Tsis	7	-55 to +150	°C

### Electrical Characteristics at To - 25

Paramete	vmbol	Conditions	Ratings			Unit
			min	typ	max	O III
Collector Cutoff Current	ICBO	V <sub>CB</sub> =(-)40V, I <sub>E</sub> =0			(–)100	μΑ
Emitter Cutoff Current	IERO	V <sub>EB</sub> =(-)4V, I <sub>C</sub> =0			(–)100	μA
DC Current Gain	b <sub>FE</sub> 1	V <sub>CE</sub> =(-)5V, I <sub>C</sub> =(-)0.5A	70*		280*	
	h <sub>FE</sub> 2	V <sub>CE</sub> =(-)5V, I <sub>C</sub> =(-)3A	20			
Gain-Bandwidt'ı Product	fΤ	V <sub>CE</sub> =(-)5V, I <sub>C</sub> =(-)0.5A		(8)40		MHz
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> =(-)10V, f=1MHz		(60)		pF
				110		pF

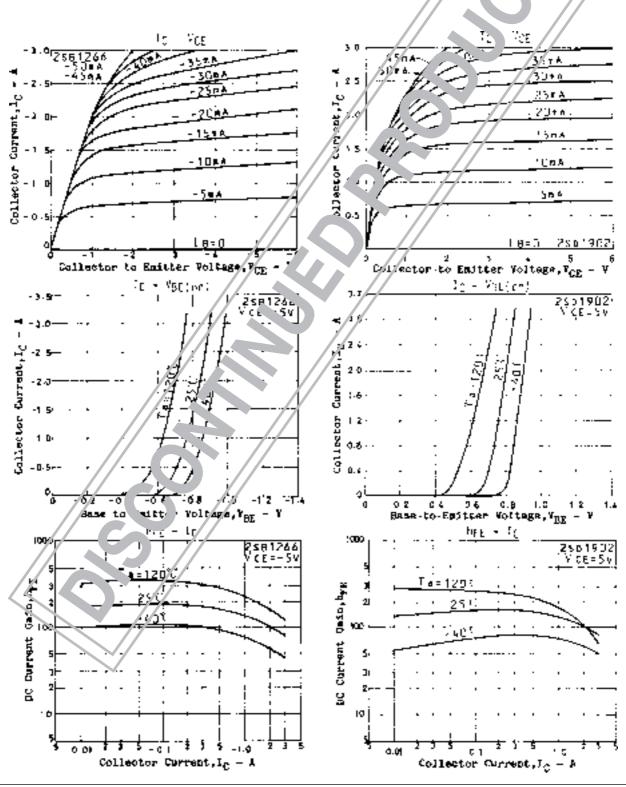
\*: The \( \sigma S' \) 1266/? \( \sigma \) are \( \text{lassified by 0.5A h}\_{FE} \) as follows:

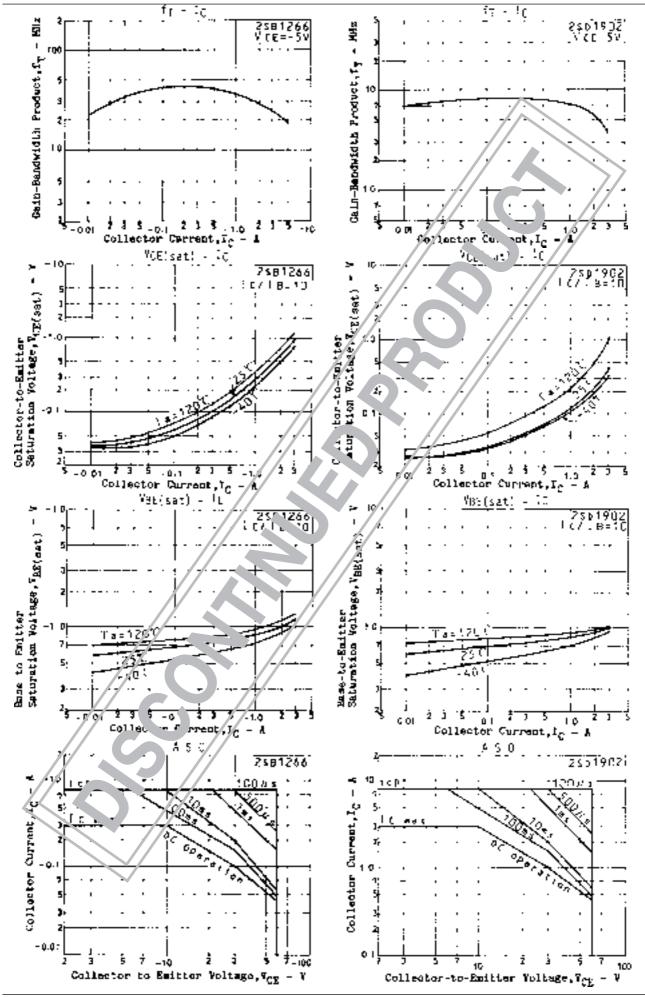
70 Q 140 100 R 200 140 S 280

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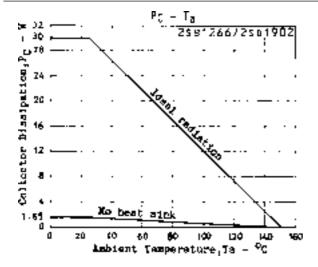
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Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =(-)2A, I <sub>B</sub> =(-)0.2A		(-)0.4	(-)1	V
Base-to-Emitter Voltage	V <sub>BE</sub>	I <sub>CE</sub> =(-)5V, I <sub>C</sub> =(-)0.5A		(-)0.7	(-)1	V
Collector-to-Base Breakdown Voltage	V <sub>(BR)</sub> CBO	I <sub>C</sub> =(-)1mA, I <sub>E</sub> =0	(–)60			V
Collector-to-Emitter Breakdown Voltage	V <sub>(BR)</sub> CEO	$I_C=(-)5mA$ , $R_{BE}=\infty$	(-),60			V
Emitter-to-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	$I_E=(-)1mA, I_C=0$	()6			V





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