

# **AF Power Amplifier Applications**

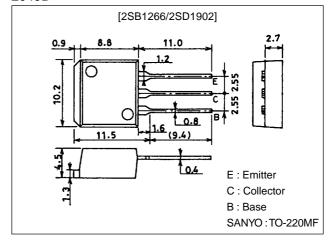
#### **Features**

- · 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>CBO</sub>		(-)60	V
Collector-to-Emitter Voltage	V <sub>CEO</sub>		(-)60	V
Emitter-to-Base Voltage	V <sub>EBO</sub>		(-)6	V
Collector Current	IC		(-)3	Α
Collector Current (Pulse)	ICP		(–)8	Α
Collector Dissipation	PC		1.65	W
		Tc=25°C	30	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

#### Electrical Characteristics at Ta = 25°C

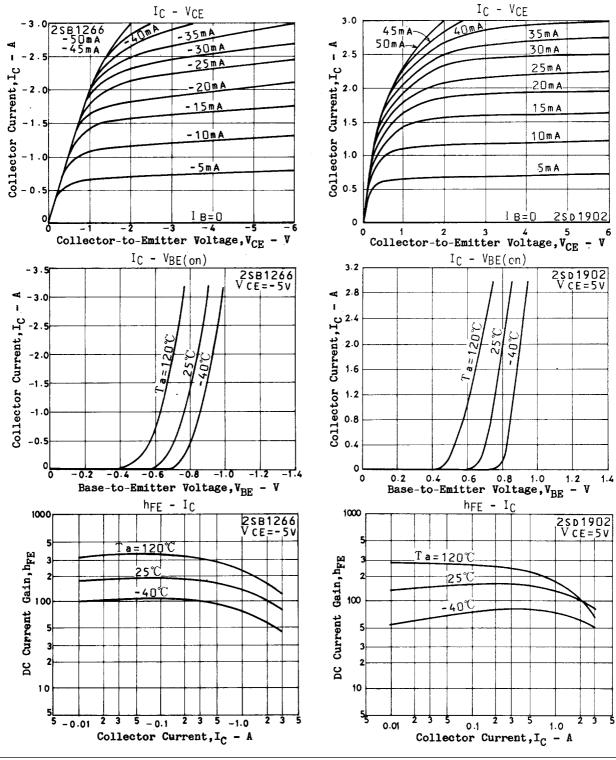
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	V <sub>CB</sub> =(-)40V, I <sub>E</sub> =0			(–)100	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =(-)4V, I <sub>C</sub> =0			(–)100	μA
DC Current Gain	h <sub>FE</sub> 1	V <sub>CE</sub> =(-)5V, I <sub>C</sub> =(-)0.5A	70*		280*	
DC Current Gain	h <sub>FE</sub> 2	V <sub>CE</sub> =(-)5V, I <sub>C</sub> =(-)3A	20			
Gain-Bandwidth Product	fT	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

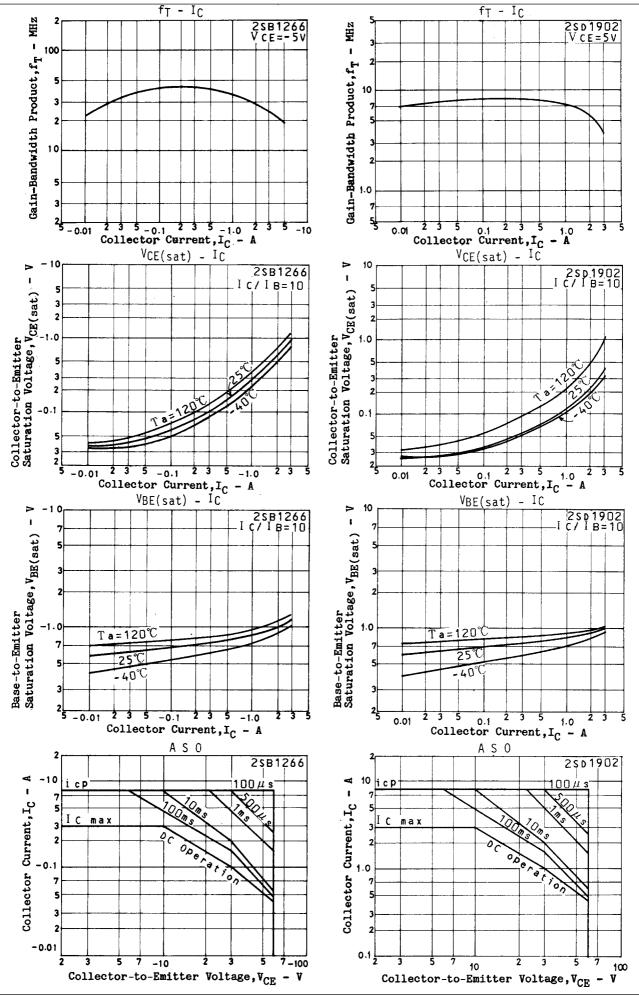
 $<sup>\</sup>ast$  : The 2SB1266/2SD1902 are classified by 0.5A  $h_{FE}$  as follows :

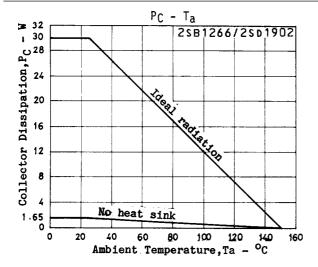
70 Q 140 100 R 200 140 S 280

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Parameter	Symbol	Conditions	Ratings			Unit
			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 <sub>C</sub> =(-)5mA, R <sub>BE</sub> =∞	(–)60			V
Emitter-to-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	$I_E=(-)1mA$ , $I_C=0$	(–)6			V







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