

# Silicon Epitaxial Base Mesa Transistor

TOP-3 Package (See Page 36 For Dimensions)

T-33-21  
T-33-11

**2SA1060 (PNP)  
2SC2484 (NPN)**

## 2SA1060 (PNP)

### Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Rating	Unit
Collector-Base Voltage	-V <sub>CB0</sub>	80	V
Collector-Emitter Voltage	-V <sub>CEO</sub>	80	V
Emitter-Base Voltage	-V <sub>EB0</sub>	5	V
Collector Current	-I <sub>C</sub>	5	A
Peak Collector Current	-I <sub>CM</sub>	8	A
Collector Power Dissipation	P <sub>C</sub> *	60	W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55~+150	°C

\*T<sub>C</sub>=25°C

High Power Audio Frequency Amplifier  
Complementary Pair with 2SC2484

### Feature

• High collector power dissipation: 60W(T<sub>C</sub>=25°C)

### \*\*hFE Classification

hFE	100~200	60~120	40~80
Class	P	Q	R

### Electrical Characteristics (Ta=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector Cutoff Current	-I <sub>CBO</sub>	-V <sub>CB</sub> =80V, I <sub>E</sub> =0			50	μA
Emitter Cutoff Current	-I <sub>EB0</sub>	-V <sub>EB</sub> =3V, I <sub>C</sub> =0			50	μA
DC Current Gain	hFE1	-V <sub>CE</sub> =5V, -I <sub>C</sub> =0.02A	20			
	hFE2**	-V <sub>CE</sub> =5V, -I <sub>C</sub> =1.0A	40		220	V
	hFE3	-V <sub>CE</sub> =5V, -I <sub>C</sub> =3A	20			
Base Emitter Voltage	-V <sub>BE</sub>	-V <sub>CE</sub> =5V, -I <sub>C</sub> =3A			1.8	V
Collector-Emitter Saturation Voltage	-V <sub>CE(sat)</sub>	-I <sub>C</sub> =3A, -I <sub>B</sub> =0.3			2.0	V
Gain Bandwidth Product	f <sub>T</sub>	-V <sub>CE</sub> =5V, -I <sub>C</sub> =0.5A		20		MHz

## 2SC2484 (NPN)

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Emitter-Base Voltage	V <sub>EB0</sub>	5	V
Collector Current	I <sub>C</sub>	5	A
Peak Collector Current	I <sub>CM</sub>	8	A
Collector Power Dissipation	P <sub>C</sub> *	60	W
Junction Temperature	T <sub>J</sub>	150	°C
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\*T<sub>C</sub>=25°C

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Complementary Pair with 2SA1060

### Feature:

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Emitter Cutoff Current	I <sub>EB0</sub>	V <sub>EB</sub> =3V, I <sub>C</sub> =0			50	μA
DC Current Gain	hFE1	V <sub>CE</sub> =5V, I <sub>C</sub> =0.02A	20			
	hFE2**	V <sub>CE</sub> =5V, I <sub>C</sub> =1.0A	40		220	V
	hFE3	V <sub>CE</sub> =5V, I <sub>C</sub> =3A	20			
Base Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =3A			1.8	V
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =3A, I <sub>B</sub> =0.3A			2.0	V
Gain Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =0.5A		20		MHz

T-33-21  
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**Typical Characteristics**

