

# 2SC1226, 2SC1226A

## Silicon NPN Epitaxial Planar Type

Medium Power Amplifier

Complementary Pair with 2SA699, 2SA699A

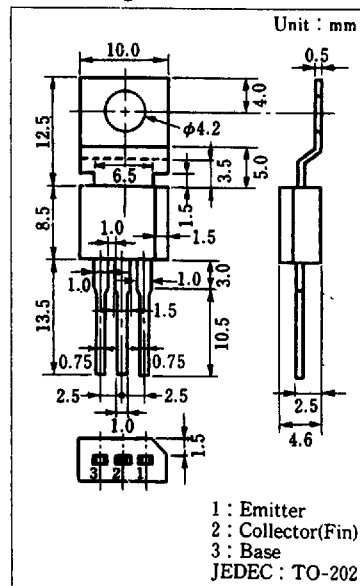
### ■ Feature

- 5W output in complementary pair with 2SA699, 2SA699A

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

Item	Symbol	Value	Unit
Collector-base voltage	2SC1226	40	V
	2SC1226A	50	
Collector-emitter voltage	2SC1226	32	V
	2SC1226A	40	
Emitter-base voltage	V <sub>EB0</sub>	5	V
Peak collector current	I <sub>CP</sub>	3	A
Base current	I <sub>B</sub>	0.6	A
Collector power dissipation (Tc=25°C)	P <sub>C</sub>	10	W
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature	T <sub>str</sub>	-55 ~ +150	°C

### ■ Package Dimensions



### ■ Electrical Characteristics (Tc=25°C)

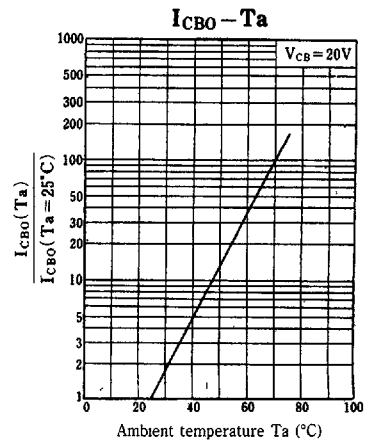
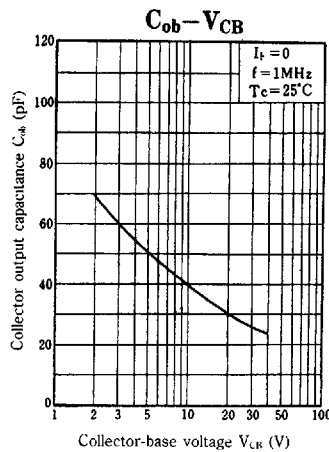
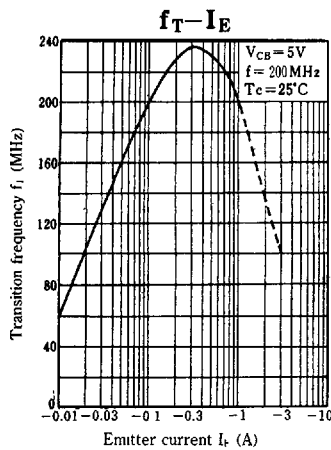
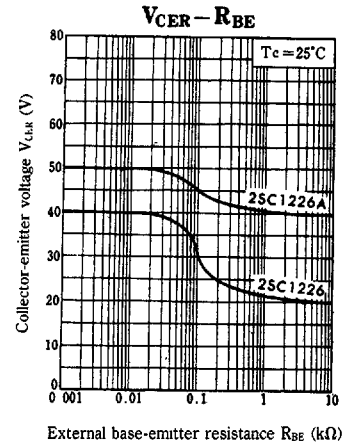
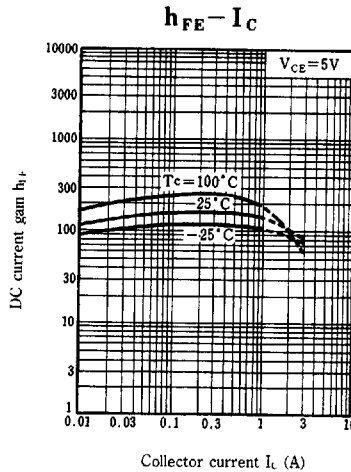
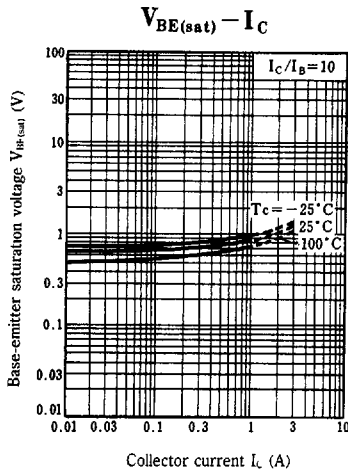
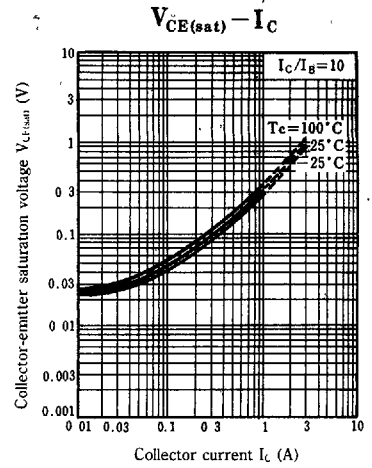
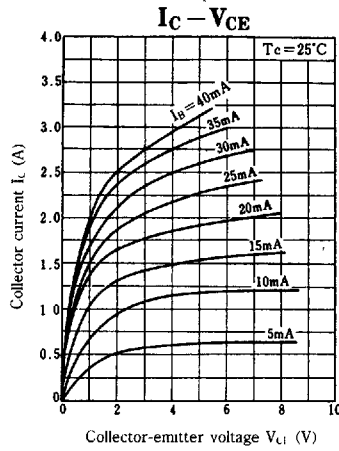
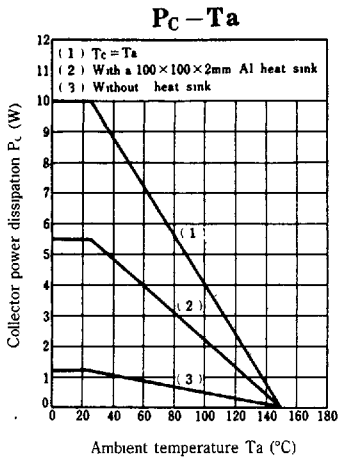
Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I <sub>CB0</sub>	V <sub>CB</sub> =20 V, I <sub>E</sub> =0			1	μA
	I <sub>CE0</sub>	V <sub>CE</sub> =12 V, I <sub>B</sub> =0			100	
Emitter cutoff current	I <sub>EB0</sub>	V <sub>EB</sub> =5 V, I <sub>C</sub> =0			100	μA
Collector-base voltage	V <sub>CB0</sub>	I <sub>C</sub> =1 mA, I <sub>E</sub> =0	40			V
			50			
Collector-emitter voltage	V <sub>CE0</sub>	I <sub>C</sub> =10 mA, I <sub>B</sub> =0	32			V
			40			
DC current gain	h <sub>FE</sub> *1	V <sub>CE</sub> =5 V, I <sub>C</sub> =1 A*2	50	120	220	
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =5 V, I <sub>C</sub> =0.5 A*2		150		MHz
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =2 A, I <sub>B</sub> =0.2 A*2			1.5	V
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =2 A, I <sub>B</sub> =0.2 A*2		0.4	1	V
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =5 V, I <sub>E</sub> =0, f=1 MHz		50		pF

\*2: パルス測定

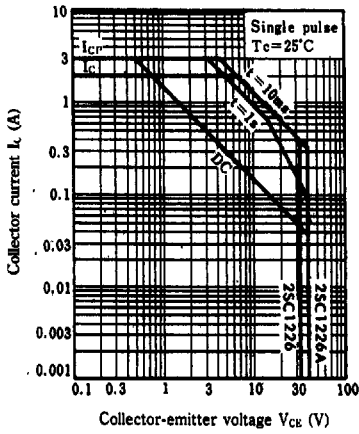
### \*h<sub>FE</sub> Classifications

Class	P	Q	R
h <sub>FE</sub>	50 ~ 100	80 ~ 160	120 ~ 220

■ 6932852 0016338 T49 ■



Area of safe operation (ASO)



$R_{th(t)} - t$

