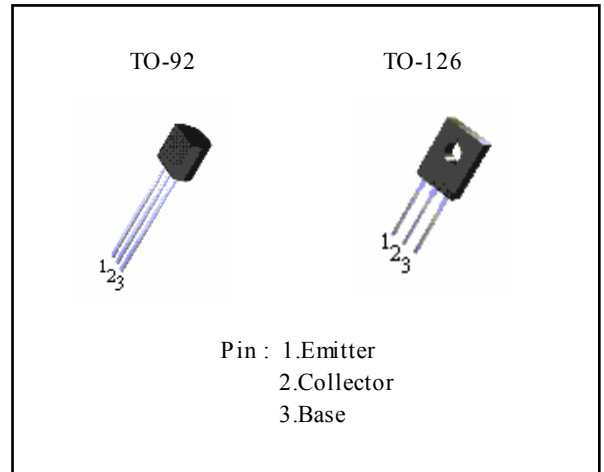


**PNP Epitaxial Silicon Transistor**

**AUDIO FREQUENCY POWER AMPLIFIER  
LOW SPEED SWITCHING**

- Complement to PJD882
- PW 10μs, Duty Cycle 50%
- Pulse Test PW 350μs, Duty Cycle 2%



**ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)**

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CB0</sub>	-50	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-40	V
Emitter-Bias Voltage	V <sub>EBO</sub>	-5	V
Collector Current (DC)	I <sub>C</sub>	-2	A
*Collector Current (Pulse)	I <sub>C</sub>	-5	A
Base Current (DC)	I <sub>B</sub>	-0.6	A
Collector Dissipation (Ta=25°C)	P <sub>C</sub>	-	W
Collector Dissipation (Tc=25°C)	P <sub>C</sub>	1	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-	°C
		55~150	

**ORDERING INFORMATION**

Device	Operating Temperature	Package
PJB772SCT	-20°C ~ +85°C	TO-92
PJB772CK		TO-126

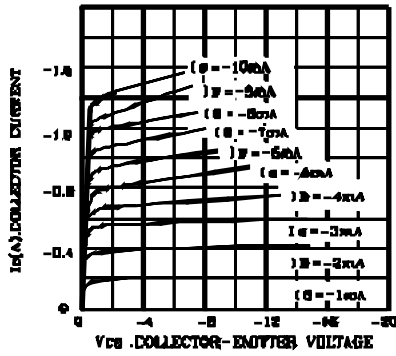
**ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

Characteristics	Symbol	Test condition	Min	Typ	Max	Unit
Collector Cutoff Current	I <sub>CB0</sub>	V <sub>CB</sub> =-30V, I <sub>E</sub> =0			-1	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =-3V, I <sub>C</sub> =0			-1	μA
*DC Current Gain	h <sub>FE1</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> =-20mA	30	220		
	h <sub>FE2</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> =-1A	60	160	400	
*Collector Emitter Saturation Voltage	V <sub>CE(SAT)</sub>	I <sub>C</sub> =-2A, I <sub>B</sub> =-0.2A		-0.3	-0.45	V
Voltage	V <sub>BE(SAT)</sub>	I <sub>C</sub> =-2A, I <sub>B</sub> =-0.2A		-1.0	-2.0	V
*Base Emitter Saturation Voltage	f <sub>T</sub>	V <sub>CE</sub> =-5V, I <sub>C</sub> =0.1A		80		MHz
Current Gain Bandwidth Product	Cob	V <sub>CB</sub> =-10V, I <sub>E</sub> =0		55		pF
Output Capacitance		f=1MHz				
Noise Figure	NF	V <sub>CE</sub> =10V, I <sub>C</sub> =1mA		4		dB
		R <sub>S</sub> =10K, f=1KHz				

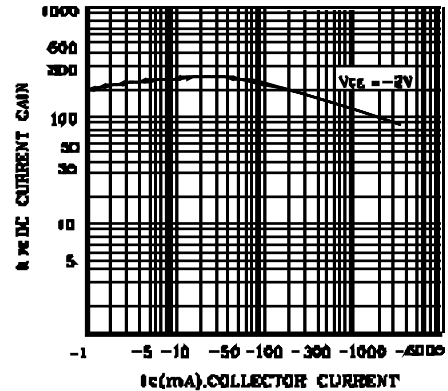
**h<sub>FE</sub>(2) CLASSIFICATION**

Classification	R	O	Y	G
h <sub>FE</sub> (2)	60-120	100-200	160-320	200-400

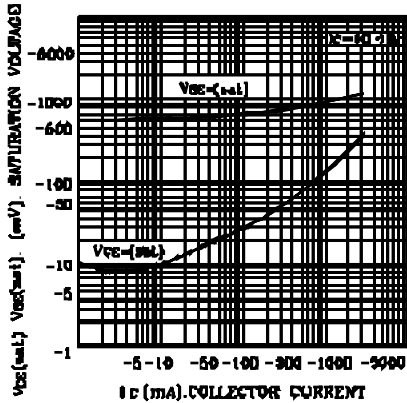
STATIC CHARACTERISTIC



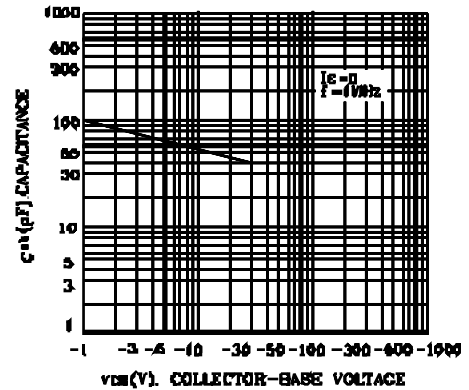
DC CURRENT GAIN



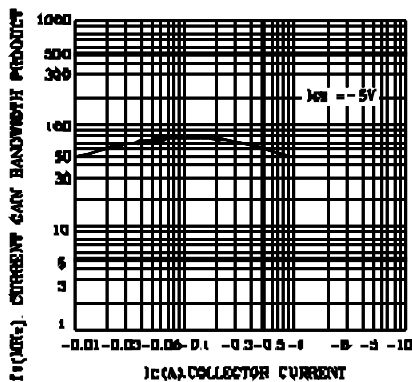
BASE-EMITTER SATURATION VOLTAGE  
COLLECTOR-EMITTER SATURATION VOLTAGE



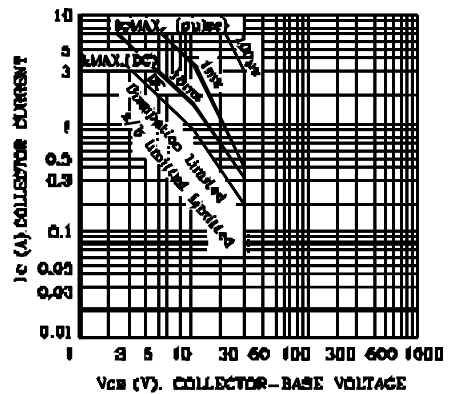
COLLECTOR OUTPUT CAPACITANCE



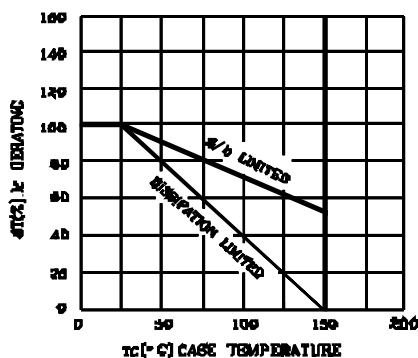
CURRENT GAIN-BANDWIDTH PRODUCT



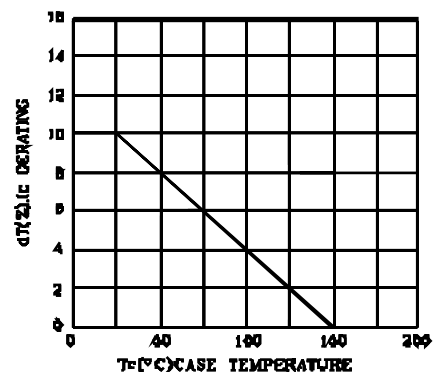
SAFE OPERATING AREAS



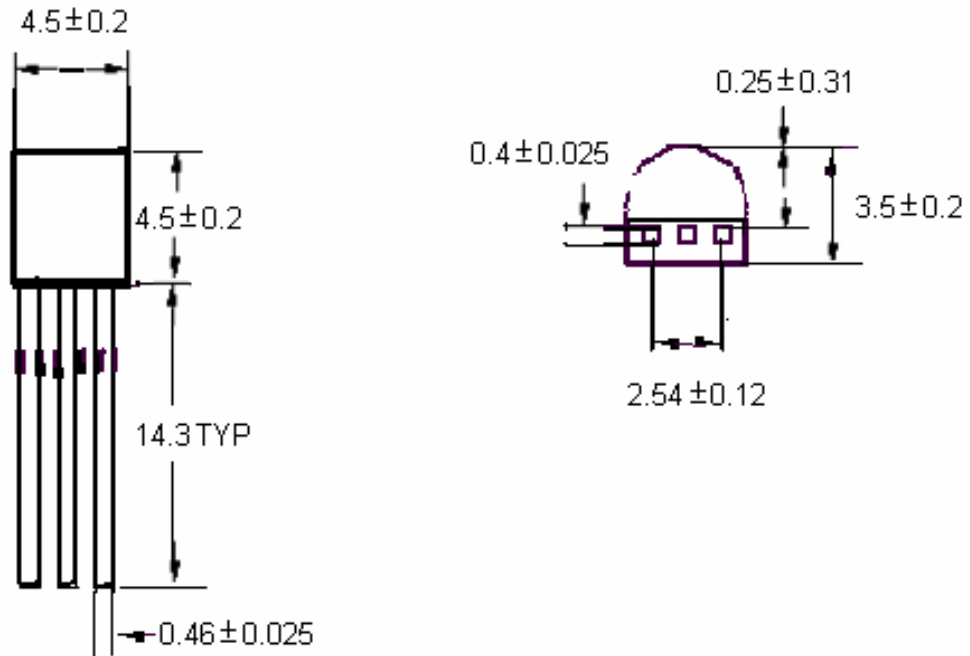
DERATING CURVE OF SAFE OPERATING AREAS



POWER DERATING



**TO-92 Unit:mm**



**TO-18 Unit:mm**

