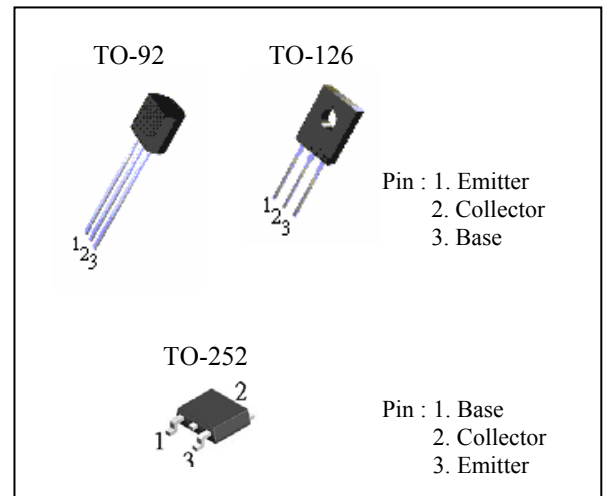


**AUDIO FREQUENCY POWER AMPLIFIER
LOW SPEED SWITCHING**

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

ABSOLUTE MAXIMUM RATINGS (Tc = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-40	V
Emitter-Bias Voltage	V _{EBO}	-5	V
Collector Current (DC)	I _C	-3	A
*Collector Current (Pulse)	I _C	-5	A
Base Current (DC)	I _B	-0.6	A
Collector Dissipation (Ta=25°C)	P _C	-	W
Collector Dissipation (Tc=25°C)	P _C	10	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-	°C
		55~150	



ORDERING INFORMATION

Device	Operating Temperature	Package
PJB772SCT	-20°C ~ +85°C	TO-92
PJB772CK		TO-126
PJB772CP		TO-252

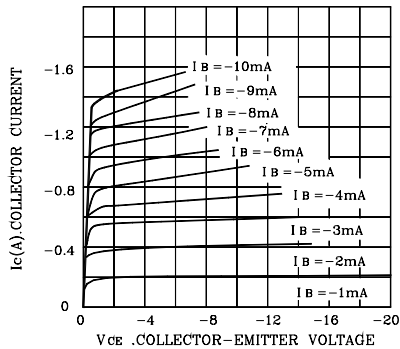
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

Characteristics	Symbol	Test condition	Min	Typ	Max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =-30V, I _E =0			-1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-3V, I _C =0			-1	μA
*DC Current Gain	h _{FE1}	V _{CE} =-2V, I _C =-20mA	30	220		
	h _{FE2}	V _{CE} =-2V, I _C =-1A	60	160	400	
*Collector Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-2A, I _B =-0.2A		-0.3	-0.45	V
Voltage	V _{BE(SAT)}	I _C =-2A, I _B =-0.2A		-1.0	-2.0	V
*Base Emitter Saturation Voltage	f _T	V _{CE} =-5V, I _C =0.1A		80		MHz
Current Gain Bandwidth Product	Cob	V _{CB} =-10V, I _E =0		55		pF
Output Capacitance		f=1MHz				
Noise Figure	NF	V _{CE} =10V, I _C =1mA R _S =10K, f=1KHz		4		dB

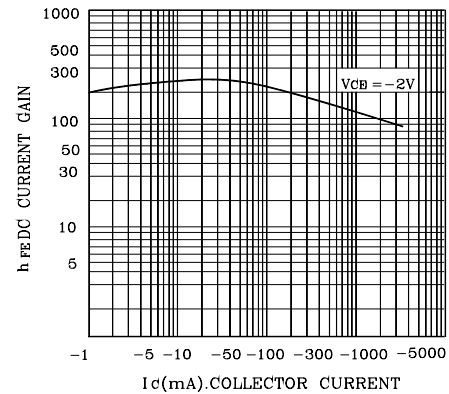
h_{FE}(2) CLASSIFICATION

Classification	R	O	Y	G
h _{FE} (2)	60-120	100-200	160-320	200-400

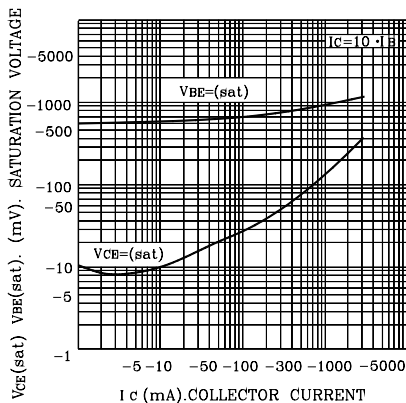
STATIC CHARACTERISTIC



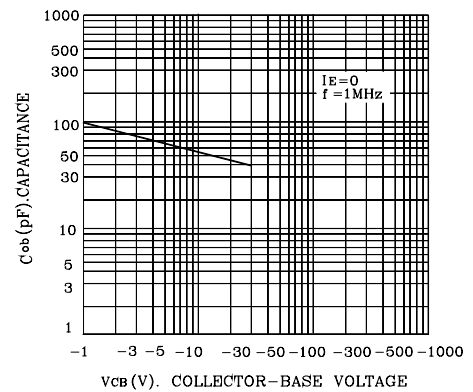
DC CURRENT GAIN



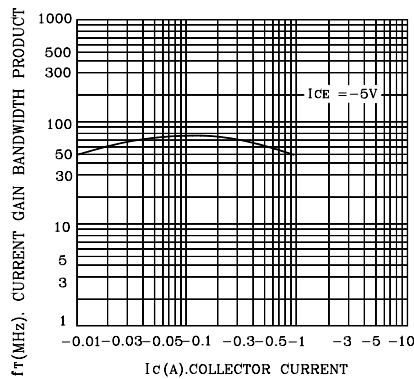
BASE-EMITTER SATURATION VOLTAGE COLLECTOR-EMITTER SATURATION VOLTAGE



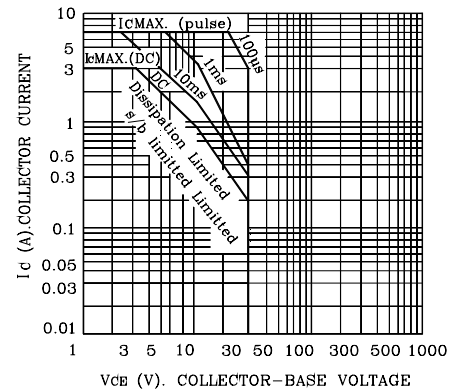
COLLECTOR OUTPUT CAPACITANCE



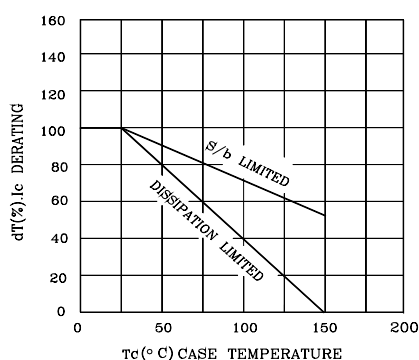
CURRENT GAIN-BANDWIDTH PRODUCT



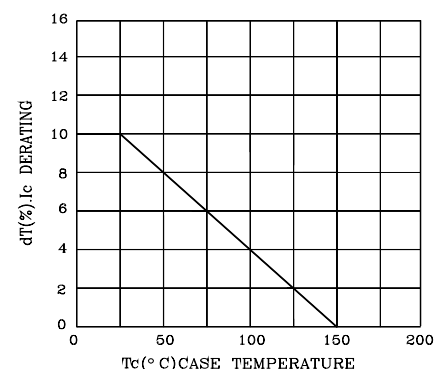
SAFE OPERATING AREAS



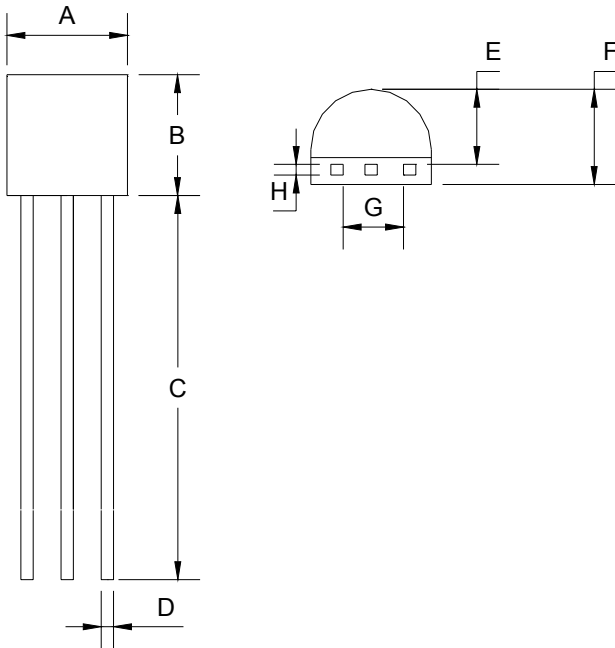
DERATING CURVE OF SAFE OPERATING AREAS



POWER DERATING

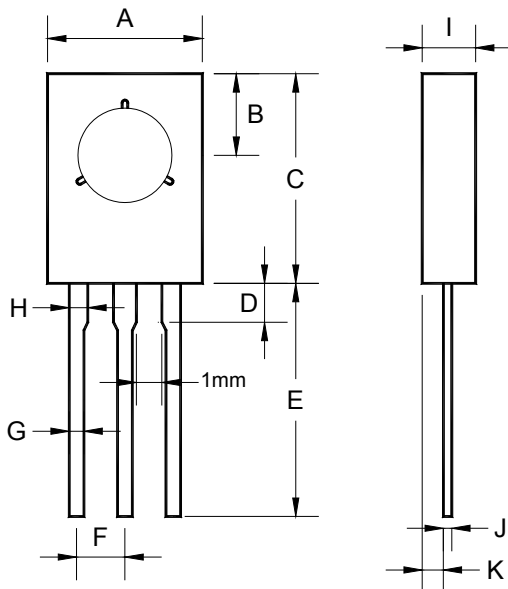


TO-92 Unit : mm



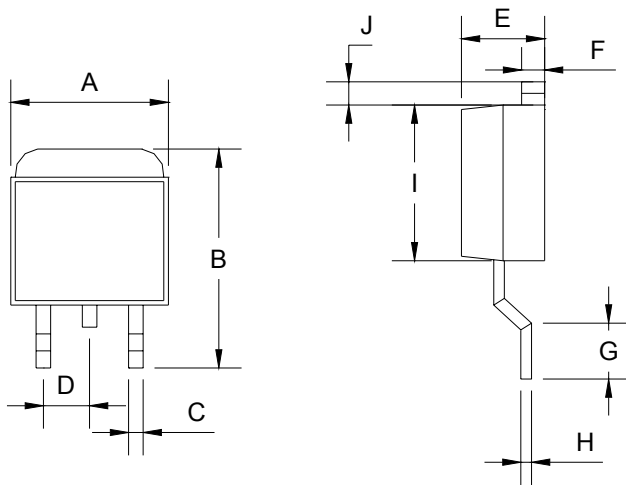
TO-92 DIMENSION				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	4.30	4.70	0.169	0.185
B	4.30	4.70	0.169	0.185
C	14.3	14.3	0.536	0.563
D	0.435	0.485	0.017	0.019
E	2.19	2.81	0.086	0.111
F	3.30	3.70	0.130	0.146
G	2.42	2.66	0.095	0.105
H	0.375	0.425	0.015	0.017

TO-126 Unit : mm



TO-126 DIMENSION				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	8.0	8.0	0.315	0.315
B	4.2	4.2	0.165	0.165
C	10.58	11.0	0.417	0.433
D	2	2	0.079	0.079
E	12	12	0.472	0.472
F	2.5	2.5	0.098	0.098
G	0.74	0.78	0.029	0.031
H	0.8	0.8	0.031	0.031
I	2.56	3.0	0.101	0.118
J	0.38	0.5	0.015	0.020
K	1.1	1.1	0.043	0.043

TO-252 Unit : mm



TO-252 DIMENSION				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	6.57	6.84	0.259	0.269
B	9.25	10.40	0.364	0.409
C	0.62	0.76	0.024	0.030
D	2.56	2.67	0.101	0.105
E	2.30	2.39	0.090	0.094
F	0.49	0.57	0.019	0.022
G	1.46	1.58	0.057	0.062
H	0.52	0.57	0.020	0.022
I	5.34	5.55	0.210	0.219
J	1.46	1.64	0.057	0.065