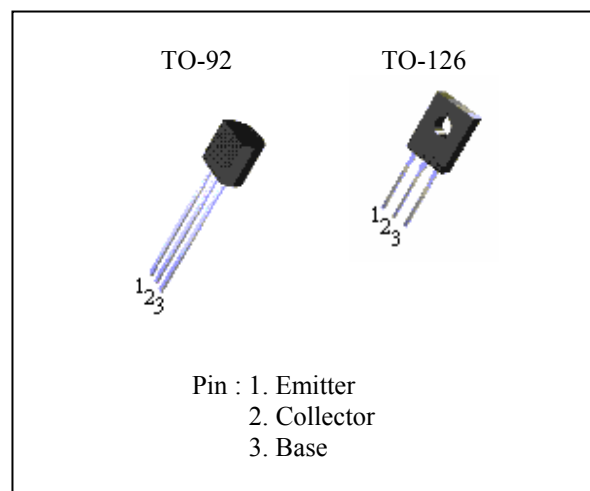


**AUDIO FREQUENCY POWER AMPLIFIER
LOW SPEED SWITCHING**

- Complement to PJB772
- PW 10ms, Duty Cycle 50% Pulse Test
- PW 350μs, Duty Cycle 2%

ABSOLUTE MAXIMUM RATINGS ($T_c = 25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Bias Voltage	V_{EBO}	5	V
Collector Current (DC)	I_C	3	A
*Collector Current (Pulse)	I_C	7	A
Base Current (DC)	I_B	0.6	A
Collector Dissipation ($T_a=25^\circ\text{C}$)	P_C	1	W
Collector Dissipation ($T_c=25^\circ\text{C}$)	P_C	10	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~150	$^\circ\text{C}$



ORDERING INFORMATION

Device	Operating Temperature	Package
PJD882CT	-20 $^\circ\text{C}$ ~ +85 $^\circ\text{C}$	TO-92
PJD882CK		TO-126

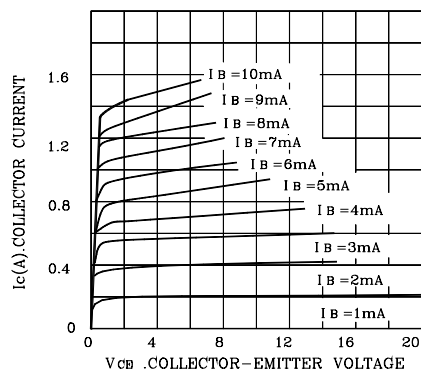
ELECTRICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$)

Characteristics	Symbol	Test condition	Min	Typ	Min	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=30\text{V}, I_E=0$	--	--	1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=3\text{V}, I_C=0$	--	--	1	μA
*DC Current Gain	h_{FE1}	$V_{CE}=2\text{V}, I_C=20\text{mA}$	30	150	--	--
	h_{FE2}	$V_{CE}=2\text{V}, I_C=1\text{A}$	60	160	400	--
*Collector Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=2\text{A}, I_B=0.2\text{A}$	--	0.3	0.5	V
*Base Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=2\text{A}, I_B=0.2\text{A}$	--	1.0	2.0	V
Current Gain Bandwidth Product	f_T	$V_{CE}=5\text{V}, I_C=0.1\text{A}$	--	90	--	MHz
Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0$ $f=1\text{MHz}$	--	45	--	pF

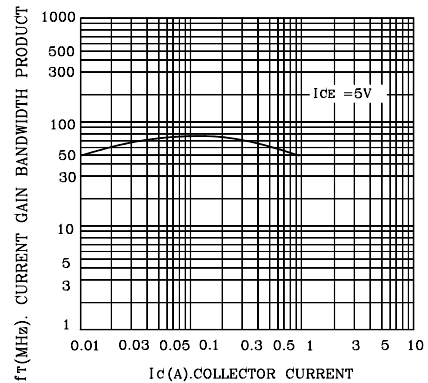
$h_{FE}(2)$ CLASSIFICATION

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

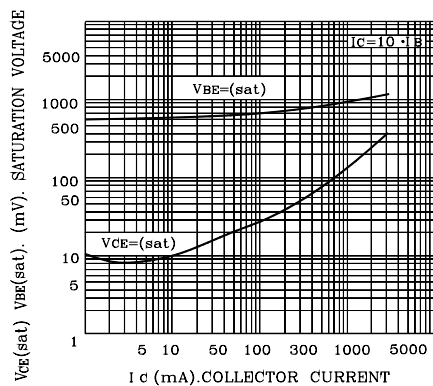
STATIC CHARACTERISTIC



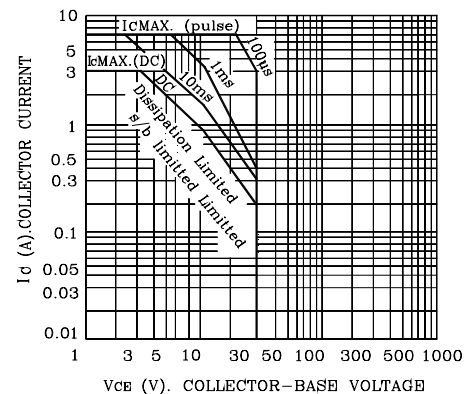
CURRENT GAIN-BANDWIDTH PRODUCT



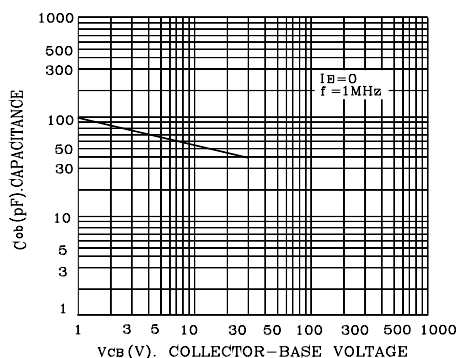
BASE-EMITTER SATURATION VOLTAGE COLLECTOR-EMITTER SATURATION VOLTAGE



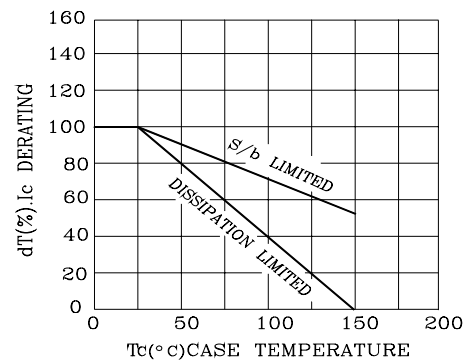
SAFE OPERATING AREAS



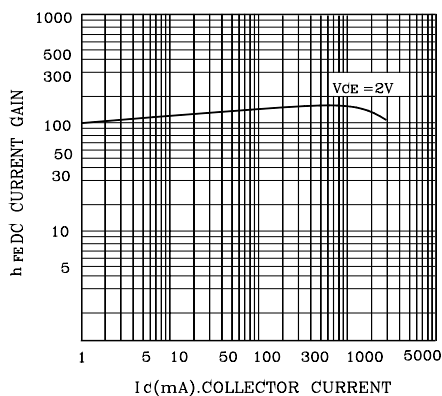
COLLECTOR OUTPUT CAPACITANCE



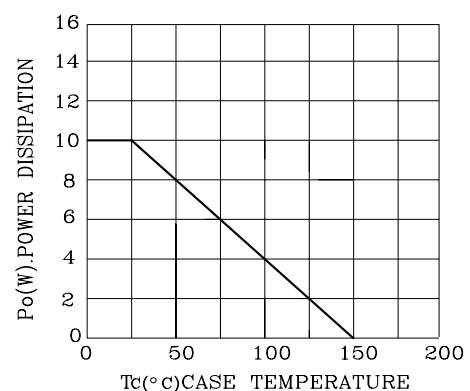
DERATING CURVE OF SAFE OPERATING AREAS



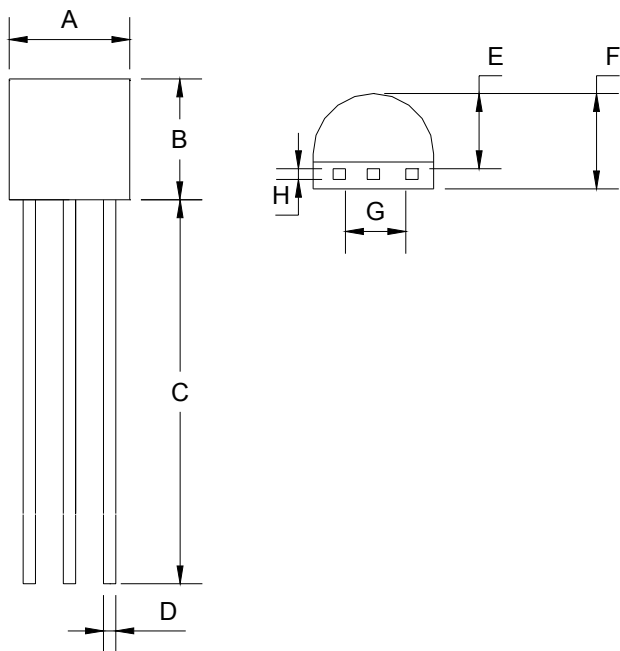
DC CURRENT GAIN



POWER DERATING

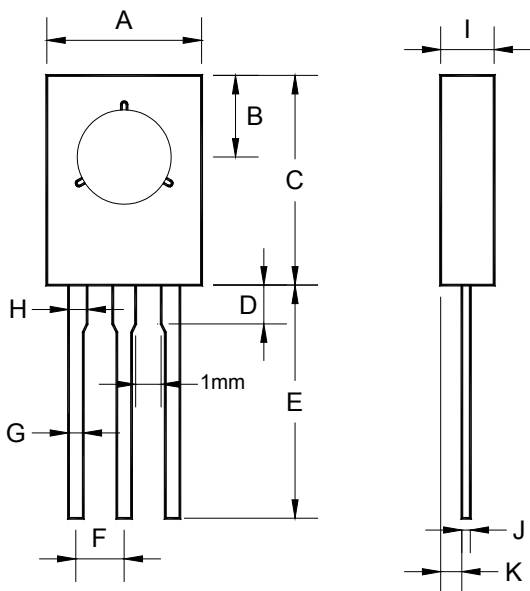


TO-92 Unit : mm



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