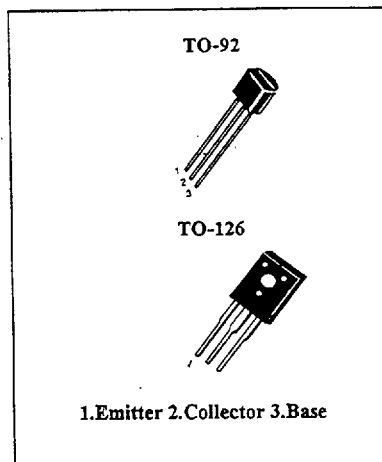


AUDIO FREQUENCY POWER AMPLIFIER LOW SPEED SWITCHING

- Complement to 2SD882

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Characteristic	Symbol	2SB772S Max	2SB772 Max	Unit
Collector-Base Voltage	V _{CB0}	-50	-50	V
Collector-Emitter Voltage	V _{CE0}	-40	-40	V
Emitter-Bias Voltage	V _{EB0}	-5	-5	V
Collector Current (DC)	I _C	-2	-3	A
*Collector Current (Pulse)	I _C	-5	-7	A
Base Current (DC)	I _B	-0.6	-0.6	A
Collector Dissipation (Ta=25°C)	P _C	-	10	W
Collector Dissipation (Tc=25°C)	P _C	1	1	W
Junction Temperature	T _j	150	150	°C
Storage Temperature	T _{stg}	-55~150	-55~150	°C



- PW ≤ 10 μs, Duty Cycle ≤ 50%

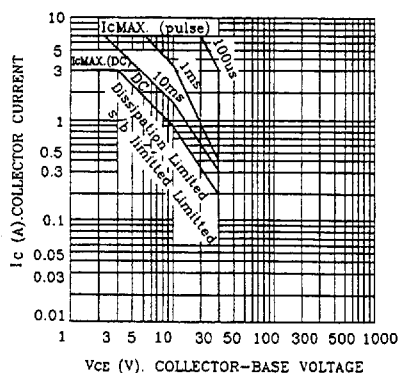
ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Characteristics	Symbol	Test condition	Min	Typ	Max	Unit
Collector Cutoff Current	I _{CBO}	V _{CE} =-30V, I _B =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
*Base Emitter Saturation Voltage	V _{BE(SAT)}	I _C =-2A, I _B =-0.2A		-1.0	-2.0	V
Current Gain Bandwidth Product	f _T	V _{CE} =-5V, I _C =0.1A		80		MHz
Output Capacitance	C _{ob}	V _{CB} =-10V, I _B =0 f=1MHz		55		pF
Noise Figure	NF	V _{CE} =10V, I _C =1mA R _s =10KΩ, f=1KHz		4		dB

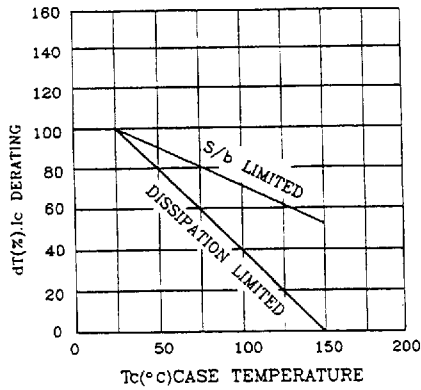
- Pulse Test PW ≤ 350 μs, Duty Cycle ≤ 2%

h_{FE}(2) CLASSIFICATION

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



DERATING CURVE OF SAFE OPERATING AREAS



POWER DERATING

