

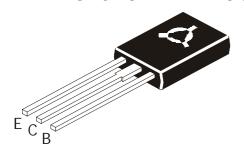
TÜV MANAGEMENT SERVICE

An ISO/TS16949 and ISO 9001 Certified Company

#### PNP PLASTIC POWER TRANSISTOR

**CSB772** 





### **Complementary CSD882**

## **Audio Frequency Power Amplifier and Low Speed Switching**

ABSOLUTE MAXIMUM RATINGS(Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage(open emitter)	V <sub>CBO</sub>	>40	V
Collector Emitter Voltage (open base)	$V_{CEO}$	>30	V
Emitter Base Voltage(open collector)	$V_{EBO}$	>5.0	V
Collector Current (DC)	I <sub>C</sub>	<3.0	Α
Collector Current (Pulse) (1)	I <sub>C</sub>	<7	Α
Base Current (DC)	$I_{B}$	<0.6	Α
Total Power Dissipation@ Tc=25°C	$P_{tot}$	<10	W
Total Power Dissipation@ Ta=25°C	P <sub>tot</sub>	<1.0	W
Junction Temperature	T <sub>i</sub>	<150	°C
Storage Temperature	$T_{stg}^{r}$	-65 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector-Cut off Current	I <sub>CBO</sub>	$I_E = 0, V_{CB} = 30V$			1.0	μΑ
Emitter cut off Current	I <sub>EBO</sub>	$V_{EB} = 3V$ , $I_C = 0$			1.0	μΑ
Breakdown Voltages	$V_{\sf CEO}$	$I_C = 1 \text{mA}, I_B = 0$	30			V
	$V_{CBO}$	$I_C = 1 \text{mA}, I_E = 0$	40			V
	$V_{FBO}$	$I_C = 0$ , $I_E = 1 \text{mA}$	5			V
Saturation Voltages		$I_{C}=2A, I_{B}=0.2A$			0.5	V
	V <sub>BE</sub> (sat)*	IC=2A, IB=0.2A			2.0	V
DC Current Gain	h <sub>FE</sub> *	$I_C=20$ mA, $V_{CE}=2$ V	30			
	h <sub>FE</sub> *	$I_C=1.0A, V_{CE}=2V^{**}$	60		400	
Output Capacitance at f=1MHz	Co	$I_E = 0, V_{CB} = 10V$		55		pF
Transition Frequency	$f_T$	I <sub>C</sub> =0.1A, V <sub>CE</sub> =5V		80		MHz

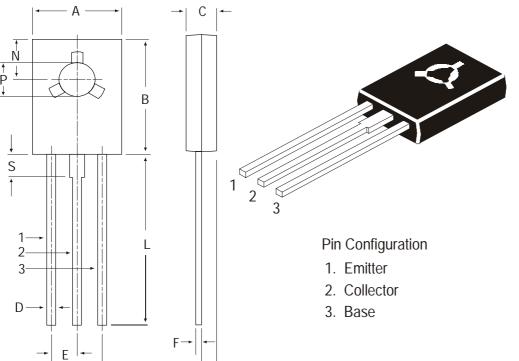
<sup>\*</sup> Pulse test : pulse width  $\leq$  350 $\mu$ s, Duty cycle  $\leq$  2%

<sup>(1)</sup> PW = 10ms, Duty Cycle ≤ 50%

<sup>\*\*</sup>h<sub>FE</sub> classification : R :60-120 Q :100-200 P: 160-320 E: 200-400

## TO126 Plastic Package

## TO-126 (SOT-32) Plastic Package



DIM	MIN	MAX	
А	7.4	7.8	
В	10.5	10.8	
С	2.4	2.7	
D	0.7	0.9	
Е	2.25 TYP.		
F	0.49	0.75	
G	4.5 TYP.		
L	15.7 TYP.		
M	1.27 TYP.		
N	3.75 TYP.		
Р	3.0	3.2	
S	2.5 TYP.		

All diminsions in mm.

# Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-126 Bulk	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2K	17" x 15" x 13.5"	32K	31 kgs
TO-126 Tube	50 pcs/tube	73 gm/50 pcs	3" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	15 kgs

Notes CSB772

TO126
Plastic Package

#### **Disclaimer**

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