

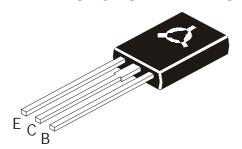
TÜV MANAGEMENT SERVICE

An ISO/TS16949 and ISO 9001 Certified Company

#### NPN PLASTIC POWER TRANSISTOR

**CSD882** 

TO126 Plastic Package



### **Complementary CSB772**

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

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

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

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

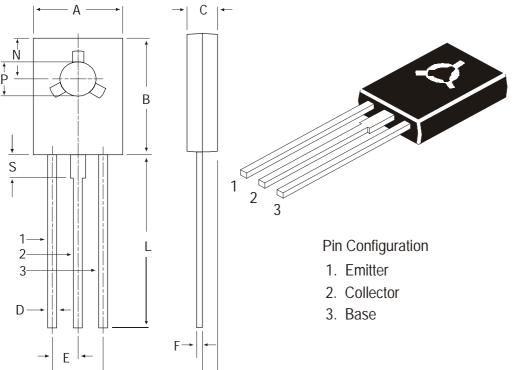
DESCRIPTION	SYMBOL	SYMBOL TEST CONDITION		TYP	MAX	UNIT
Collector-Cut off Current	I <sub>CBO</sub>	$I_E = 0, V_{CB} = 30V$			1.0	μΑ
Emitter cut -off Current	$I_{EBO}$	$I_C = 0$ , $V_{EB} = 3V$			1.0	μΑ
Breakdown Voltages	$V_{\sf CEO}$	$I_C = 1 \text{mA}, I_B = 0$	30			V
	$V_{CBO}$		40			V
		$I_C = 0$ , $I_E = 1 \text{mA}$	5			V
Saturation Voltages	$V_{CE (sat)}^*$	$I_{C}=2A$ , $I_{B}=0.2A$			0.5	V
	V <sub>BE (sat)</sub> *	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> *	$I_C=1A, V_{CE}=2V^{**}$	60		400	
Output Capacitance at f=1MHz	Co	$I_E = 0, V_{CB} = 10V,$	45		pF	
Transition Frequency	$f_T$	I <sub>C</sub> =0.1A, V <sub>CE</sub> =5V		90		MHz

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

\*\*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 CSD882

TO126
Plastic Package

#### **Disclaimer**

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