



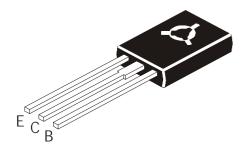


### NPN EPITAXIAL SILICON POWER TRANSISTOR

**CSD882H-P** (9HY)

TO126
Plastic Package

Marking:- SD 882H-P +DATE CODE



### **Complementary CSB772**

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

### ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage	$V_{CBO}$	60	V
Collector Emitter Voltage	$V_{CEO}$	30	V
Emitter Base Voltage	$V_{EBO}$	5.0	V
Collector Current (DC)	I <sub>C</sub>	3.0	А
Collector Current (Pulse)	I <sub>C</sub>	7.0	А
Base Current (DC)	I <sub>B</sub>	0.6	А
Total Power Dissipation @ T <sub>a=</sub> 25°C	$P_{D}$	1.0	W
Total Power Dissipation @ T <sub>c=</sub> 25°C	$P_{D}$	10	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	$T_{stg}$	- 65 to +150	°C

### **ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless specified otherwise)**

DESCRIPTION	SYMBOL TEST CONDITION		MIN	TYP	MAX	UNIT	
Collector Cut Off Current	I <sub>CBO</sub>	$I_E=0, V_{CB}=60V$			1.0	μΑ	
Emitter Cut Off Current	I <sub>EBO</sub>	$I_C=0, V_{EB}=3V$			1.0	μΑ	
Collector Emitter Saturation Voltage	*V <sub>CE (sat)</sub>	$I_{C}$ =2.0A, $I_{B}$ =0.2A			0.5	V	
Base Emitter Saturation Voltage	*V <sub>BE (sat)</sub>	$I_{C}$ =2.0A, $I_{B}$ =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	C <sub>o</sub>	$I_E=0$ , $V_{CB}=10V$ , $f=1MHz$		45		pF	
Current Gain Bandwidth Product	f <sub>T</sub>	$I_C=0.1A, V_{CE}=5V$		90		MHz	

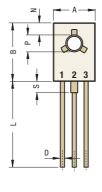
**h <sub>FE</sub> Classification	R 60 - 120	Q 100 - 200	P 160 - 320	E 200 - 400

\*Pulse test: Pulse Width  $\leq$ 300ms, Duty Cycle  $\leq$ 2%

CSD882H-P Rev\_2 240508E

## TO126 Plastic Package

**T0-126** Leaded Plastic Package





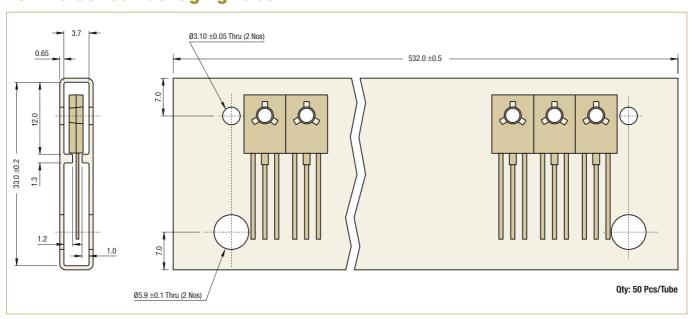
DIM	Min	Max
Α	7.12	8.38
В	10.16	11.43
С	2.29	3.04
D	0.64	0.88
Е	2.040	2.285
F	0.39	0.63

DIM	Min	Max		
G	4.07	5.08		
L	15.00	16.63		
M	0.89	1.65		
N	3.31	4.44		
Р	2.54	3.30		
S	_	2.54		

#### **Pin Configurations**

Pin 1: Emitter Pin 2: Collector Pin 3: Base

# **T0-126 Series Packaging Tube**



Packaging S	Specificati	ons							
T & A: Tape and Ammo Pack; 1	T & R: Tape and Reel; Bulk	: Loose in Poly Bags; Tube:	Tube and Cartor	n; <b>K: 1</b> ,000					
Package / Case Type	Packaging Type	Std. Packing	Inner Carton			Outer Carton			
		Qty	Qty	Size L x W x H	Gross Weight	Qty	Size L x W x H	Gross Weight	
				(cm)	(Kg)		(cm)	(Kg)	
TO-126	Bulk	2,000	2K	19 x 19 x 8	1.4	20K	46 x 38 x 22	15.6	
	Tube	1,000 (50 pcs/tube)	1K	55 x 8 x 10	1.5	10K	55 x 35 x 27	16.3	

Customer Notes CSD882H-P (9HY)

TO126
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### **Component Disposal Instructions**

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

### **Disclaimer**

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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