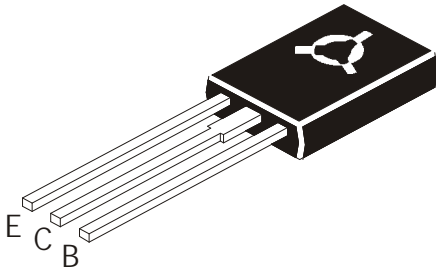


NPN EPITAXIAL SILICON POWER TRANSISTOR

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_C	3.0	A
Collector Current (Pulse)	I_C	7.0	A
Base Current (DC)	I_B	0.6	A
Total Power Dissipation @ $T_a=25^\circ\text{C}$	P_D	1.0	W
Total Power Dissipation @ $T_c=25^\circ\text{C}$	P_D	10	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut Off Current	I_{CBO}	$I_E=0, V_{CB}=60\text{V}$			1.0	μA
Emitter Cut Off Current	I_{EBO}	$I_C=0, V_{EB}=3\text{V}$			1.0	μA
Collector Emitter Saturation Voltage	$*V_{CE(sat)}$	$I_C=2.0\text{A}, I_B=0.2\text{A}$			0.5	V
Base Emitter Saturation Voltage	$*V_{BE(sat)}$	$I_C=2.0\text{A}, I_B=0.2\text{A}$			2.0	V
DC Current Gain	$*h_{FE}$	$I_C=20\text{mA}, V_{CE}=2\text{V}$	30			
	$**h_{FE}$	$I_C=1\text{A}, V_{CE}=2\text{V}$	60		400	
Output Capacitance	C_o	$I_E=0, V_{CB}=10\text{V}, f=1\text{MHz}$		45		pF
Current Gain Bandwidth Product	f_T	$I_C=0.1\text{A}, V_{CE}=5\text{V}$		90		MHz

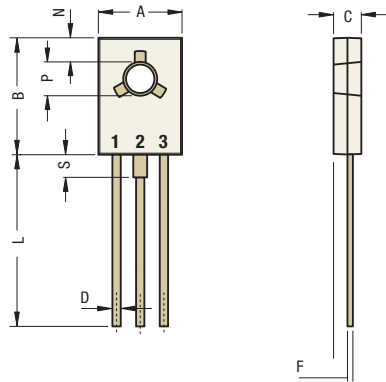
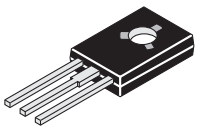
**h_{FE} Classification	R 60 - 120	Q 100 - 200	P 160 - 320	E 200 - 400
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*Pulse test: Pulse Width $\leq 300\text{ms}$, Duty Cycle $\leq 2\%$

CSD882H-P Rev_2 240508E

TO126
Plastic Package

TO-126
Leaded Plastic
Package



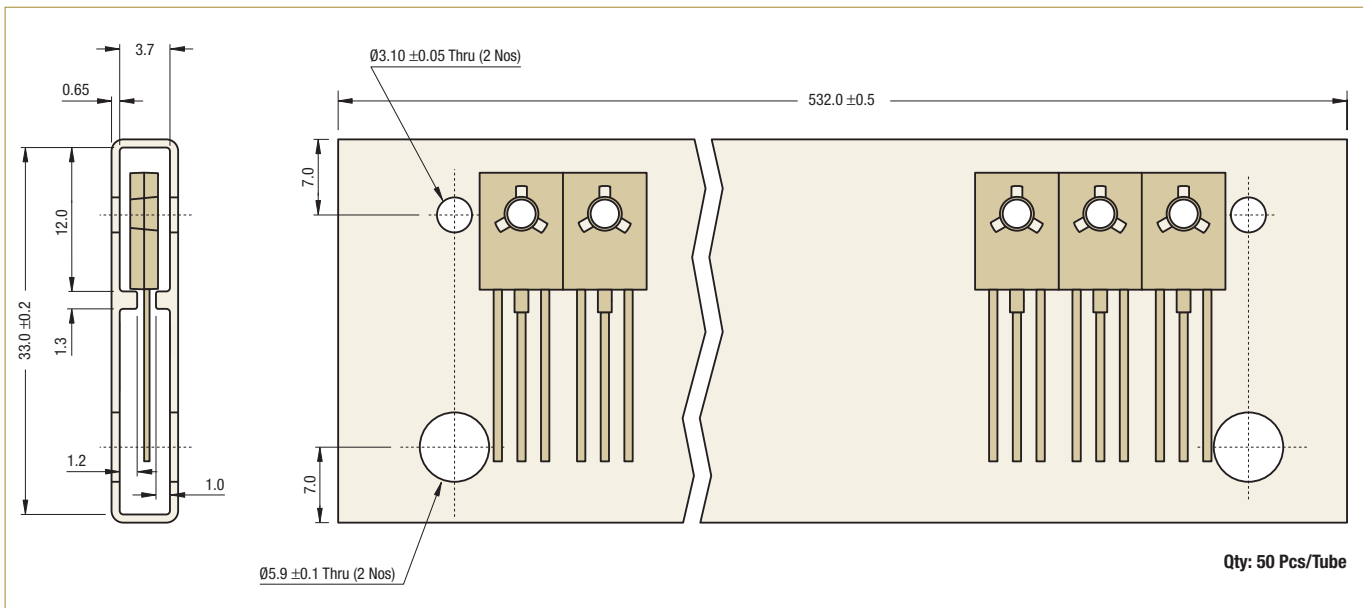
DIM	Min	Max
A	7.12	8.38
B	10.16	11.43
C	2.29	3.04
D	0.64	0.88
E	2.040	2.285
F	0.39	0.63

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

Pin Configurations

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

TO-126 Series Packaging Tube



Packaging Specifications ...

T & A: Tape and Ammo Pack; T & R: Tape and Reel; Bulk: Loose in Poly Bags; Tube: Tube and Carton; K: 1,000

Package / Case Type	Packaging Type	Inner Carton				Outer Carton		
		Std. Packing Qty	Qty	Size L x W x H (cm)	Gross Weight (Kg)	Qty	Size L x W x H (cm)	Gross Weight (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

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). CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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