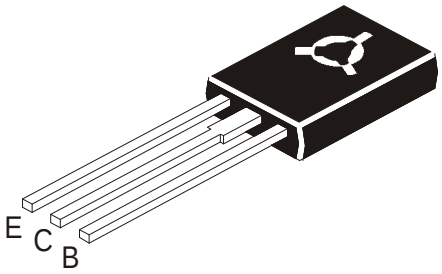
NPN EPITAXIAL SILICON POWER TRANSISTOR

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=}$25ºC	P_D	1.0	W
Total Power Dissipation @ $T_{c=}$25ºC	P_D	10	W
Junction Temperature	T_j	150	ºC
Storage Temperature Range	T_{stg}	- 65 to +150	ºC

ELECTRICAL CHARACTERISTICS (T_a=25ºC unless specified otherwise)

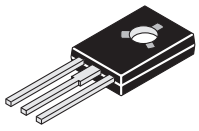
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut Off Current	I_{CBO}	I_E=0, V_{CB}=60V			1.0	µA
Emitter Cut Off Current	I_{EBO}	I_C=0, V_{EB}=3V			1.0	µA
Collector Emitter Saturation Voltage	*$V_{CE\ (sat)}$	I_C=2.0A, I_B=0.2A			0.5	V
Base Emitter Saturation Voltage	*$V_{BE\ (sat)}$	I_C=2.0A,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

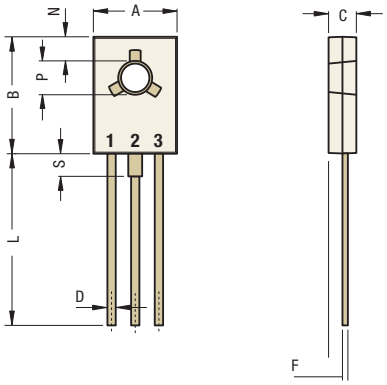
**h_{FE} Classification	R 60 - 120	Q 100 - 200	P 160 - 320	E 200 - 400

***Pulse test: Pulse Width ≤300ms, Duty Cycle ≤2%**

CSD882H-P Rev_2 240508E

TO-126
Leaded Plastic Package





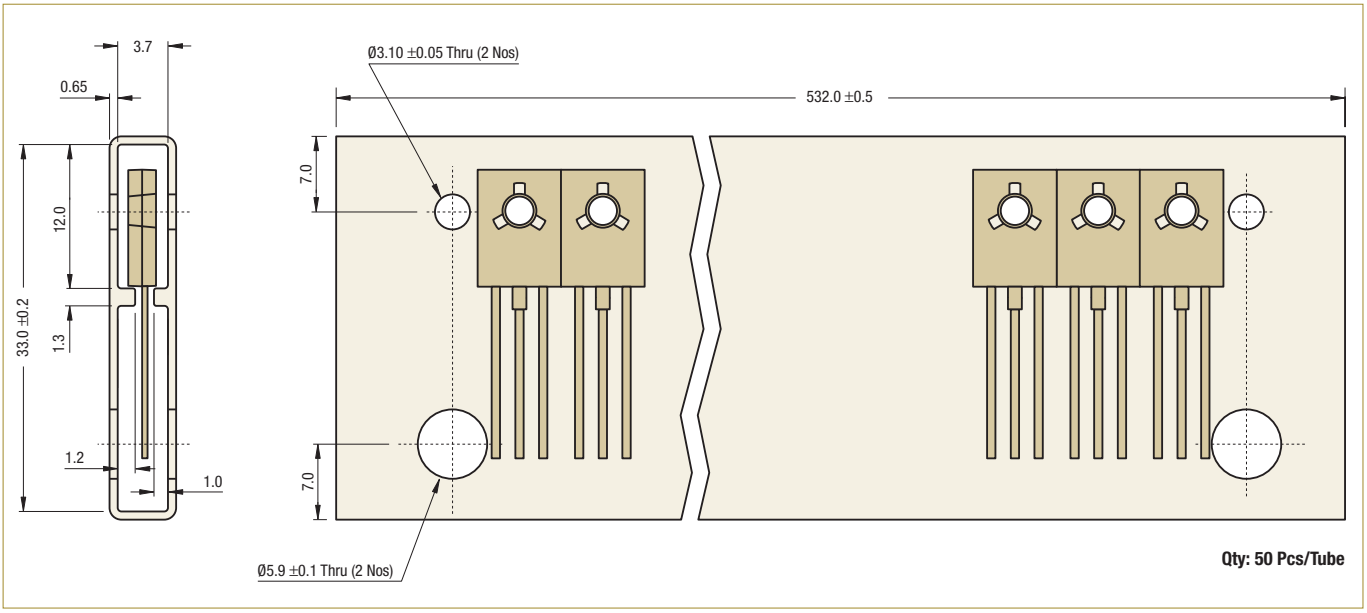
DIM	Min	Max
A	7.12	8.38
B	10.16	11.43
C	2.29	3.04
D	0.64	0.88
E	2.040	2.285
F	0.39	0.63

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	Std. Packing	Inner Carton			Outer Carton		
		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

TO126
Plastic Package

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).

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