



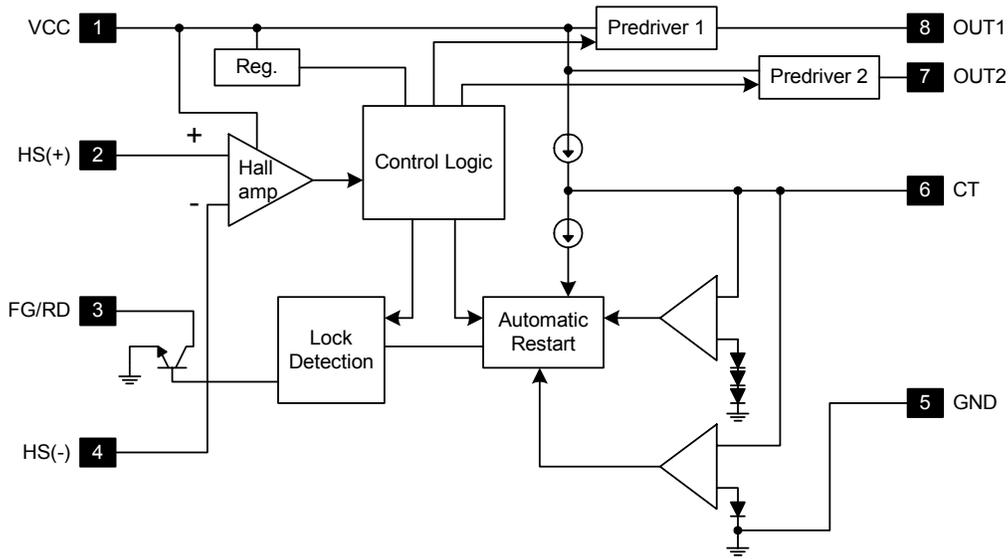
# Not Recommended for New Design



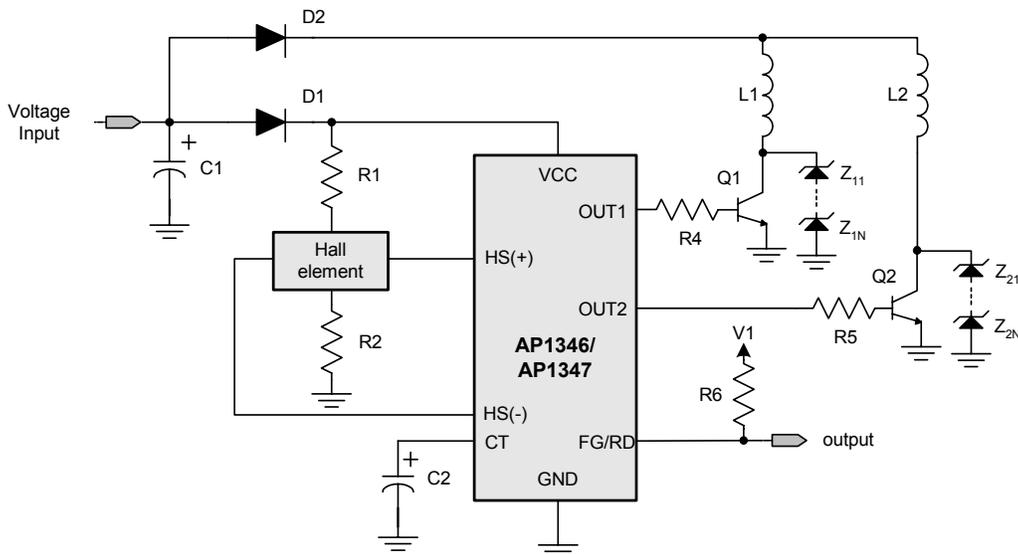
## AP1346/1347

### Two Coil Fan Motor Predriver

#### ■ Block Diagram



#### ■ Application Circuit



# Not Recommended for New Design



## AP1346/1347

Two Coil Fan Motor Predriver

### ■ Absolute Maximum Ratings (T<sub>A</sub>=25°C)

Parameter	Symbol	Rating	Unit
Input voltage	V <sub>CC</sub>	30	V
Output current	I <sub>OUT</sub>	70	mA
Allowable power dissipation	P <sub>D</sub>	550*(note1)	mW
Operating temperature	T <sub>OPR</sub>	-30 to +85	°C
Storage temperature	T <sub>STG</sub>	-55 to +125	°C

\*note1 : Reduced by 5.5mW for each increase in Ta of 1°C over 25 °C

### ■ Electrical Characteristics (T<sub>A</sub>=25°C, V<sub>CC</sub>=12V, unless otherwise noted)

Parameter	Symbol	Conditions	Rating			Unit
			Min.	Typ.	Max.	
Input voltage	V <sub>IN</sub>		4	--	28	V
Hall input voltage (DC+AC)	V <sub>BH</sub>	Includes the amplitude of signal	1	--	V <sub>CC</sub> -0.5	V
Supply current	I <sub>CC</sub>	The output is off	--	4	5.5	mA
Hall amp input hysteresis (+)	V <sub>HYS+</sub>	Delta V when V <sub>BH</sub> =6V	3	--	15	mV
Hall amp input hysteresis (-)	V <sub>HYS-</sub>	Delta V when V <sub>BH</sub> =6V	-15	--	-3	mV
Charge current	I <sub>CHG</sub>	V <sub>CT</sub> = 1.5V	7.7	9.6	11.5	uA
Discharge current	I <sub>DHG</sub>	V <sub>CT</sub> = 1.5V	0.19	0.24	0.29	uA
Charge/discharge ratio	R <sub>CD</sub>	I <sub>CHG</sub> /I <sub>DCHG</sub>	32	40	48	--
Clamp voltage	V <sub>CL</sub>		1.6	2.0	2.4	V
Comparator voltage	V <sub>CP</sub>		0.8	1.0	1.2	V
Output high level	V <sub>OH</sub>	I <sub>O</sub> = 10mA	10	10.5	--	V
FG / RD pin output low	V <sub>FGL</sub> / V <sub>RDL</sub>	I <sub>FG</sub> = 5mA / I <sub>RD</sub> = 5mA	--	--	0.5	V
FG / RD pin sink current capacity	I <sub>FG</sub> / I <sub>RD</sub>	V <sub>FGL</sub> = 2V / V <sub>RDL</sub> = 2V	8	--	--	mA

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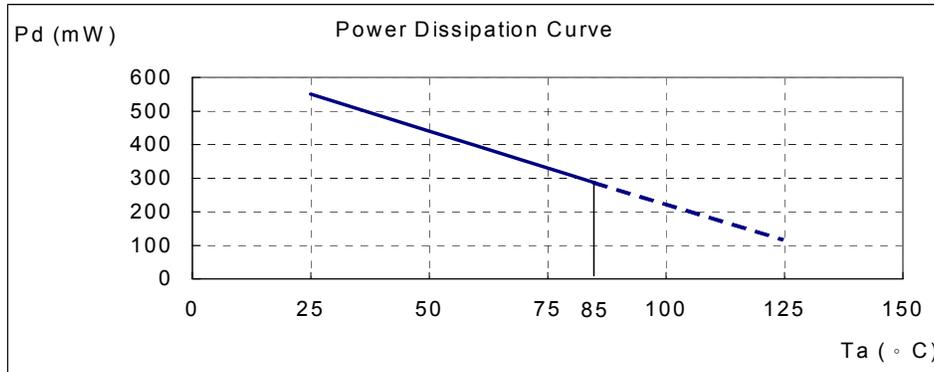


## AP1346/1347

### Two Coil Fan Motor Predriver

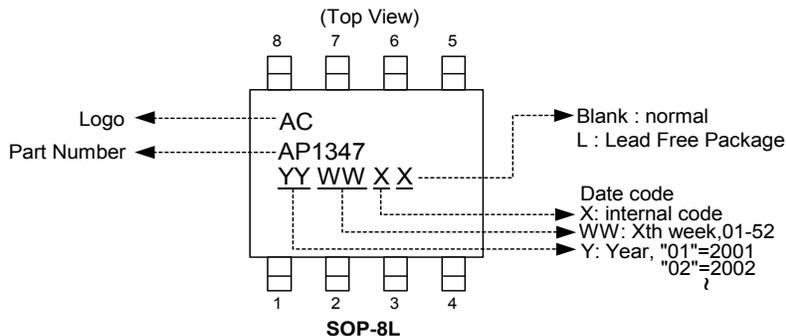
#### ■ Performance Characteristics

Ta (°C)	25	50	60	70	80	85	90
Pd (mW)	550	440	396	352	308	286	264
Ta (°C)	95	100	105	110	115	120	125
Pd (mW)	242	220	198	176	154	132	110



Note : SOP-8L package.

#### ■ Marking Information



Note: For AP1346, part number is marked as AP1346.

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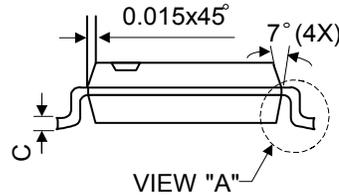
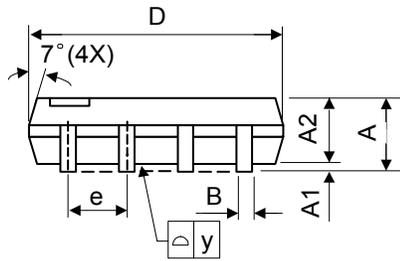
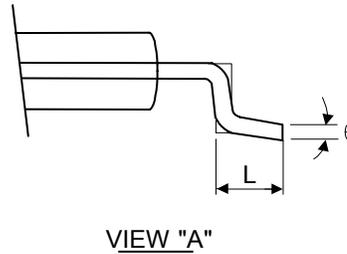
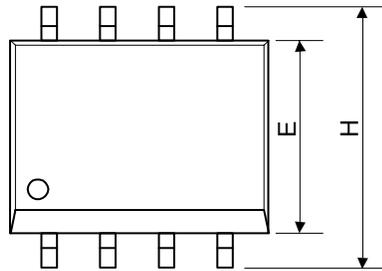


**AP1346/1347**

Two Coil Fan Motor Predriver

## ■ Package Information

Package Type: SOP-8L



Symbol	Dimensions In Millimeters			Dimensions In Inches		
	Min.	Nom.	Max.	Min.	Nom.	Max.
A	1.40	1.60	1.75	0.055	0.063	0.069
A1	0.10	-	0.25	0.040	-	0.100
A2	1.30	1.45	1.50	0.051	0.057	0.059
B	0.33	0.41	0.51	0.013	0.016	0.020
C	0.19	0.20	0.25	0.0075	0.008	0.010
D	4.80	5.05	5.30	0.189	0.199	0.209
E	3.70	3.90	4.10	0.146	0.154	0.161
e	-	1.27	-	-	0.050	-
H	5.79	5.99	6.20	0.228	0.236	0.244
L	0.38	0.71	1.27	0.015	0.028	0.050
y	-	-	0.10	-	-	0.004
θ	0°	-	8°	0°	-	8°