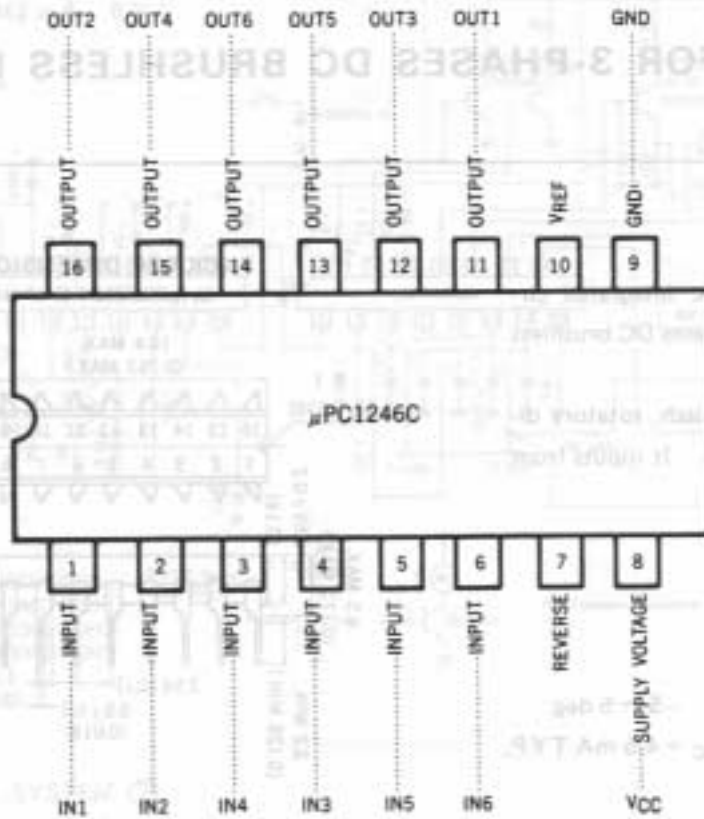


BIPOLAR ANALOG INTEGRATED CIRCUIT
CONNECTION DIAGRAM (Top View)

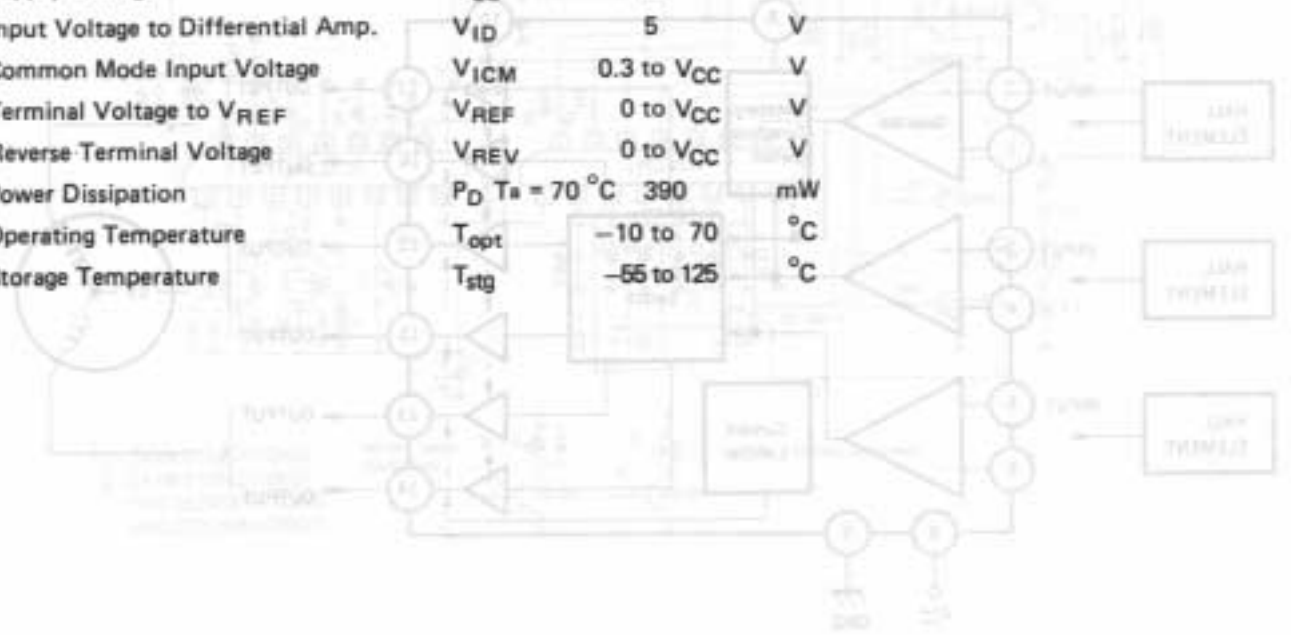


DESCRIPTION
 The μPC1246C is a bipolar monolithic IC designed for driving three phase DC brushless motor. It includes comparator, current sense, section switch and driver in 1 chip. It offers fast fall times.

- FEATURES**
- Output switch.
 - Forward/reverse function.
 - Small output driver area.
 - Low current consumption.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Supply Voltage	V _{CC}	18	V
Input Voltage to Differential Amp.	V _{ID}	5	V
Common Mode Input Voltage	V _{ICM}	0.3 to V _{CC}	V
Terminal Voltage to V _{REF}	V _{REF}	0 to V _{CC}	V
Reverse Terminal Voltage	V _{REV}	0 to V _{CC}	V
Power Dissipation	P _D Ta = 70 °C	390	mW
Operating Temperature	T _{opt}	-10 to 70	°C
Storage Temperature	T _{stg}	-55 to 125	°C



RECOMMENDED OPERATING CONDITIONS

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V _{CC}	9	12	15	V
Common Mode Input Voltage	V _{ICM}	1.5		V _{CC} -1.5	V
V _S -Output Current	V _S -I _O	Ref. Fig. 1 - 3 Within Area of Oblique Lines			

ELECTRICAL CHARACTERISTICS (T_a = 25 °C, V_{CC} = 12 V)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS
Circuit Current	I _{CC}	2	4.5	7.5	mA	V _{REF} = 0
Input/Output Characteristics		-5	0	5	deg	
Input Offset Voltage	V _{OFF}	-4.2	0	4.2	mV	V _{ICM} = 1.5 to 10.5 V
Input Bias Current	I _B	-	50	600	nA	V _{ICM} = 6 V
Propagation Delay Time	T _{pd}	-	3	-	μs	V _I = 5 mV, V _{REF} = 10 V, V _O = 9 V
Output Voltage H (11, 12, 13 PIN)	V _{OH}	8.9	9.3	9.6	V	V _{REF} = 10 V, R _L = 470 Ω
Output Voltage L (14, 15, 16 PIN)	V _{OL}	8.2	8.6	9.0	V	V _{REF} = 8 V, R _L = 470 Ω
Output Leak Current	I _S	-	-	5	μA	Ref. PAGE 916, 918

Fig. 1 OUTPUT CURRENT vs. SERVO VOLTAGE

