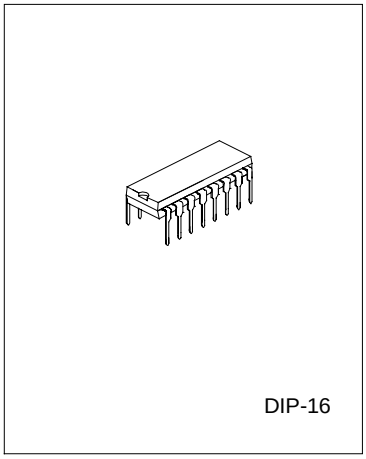
REMOTE CONTROLLER WITH TWO FUNCTIONS



DESCRIPTION

The RX-3 is a CMOS LSIs designed for remote controlled car applications. The RX-3 has only 2 keys with 3 states, i.e. forward key for forward function, backward key for backward function, and stop function if there is no signal.

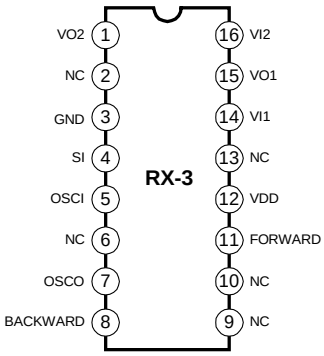
FEATURES

* Wide operating voltage range (V_{CC}=2.2 ~ 12V)
* Few external components are needed
* Typical oscillator frequency 76KHz
* RX-3 built-in Zener 3V
* 2 functions remote controller including forward/backward

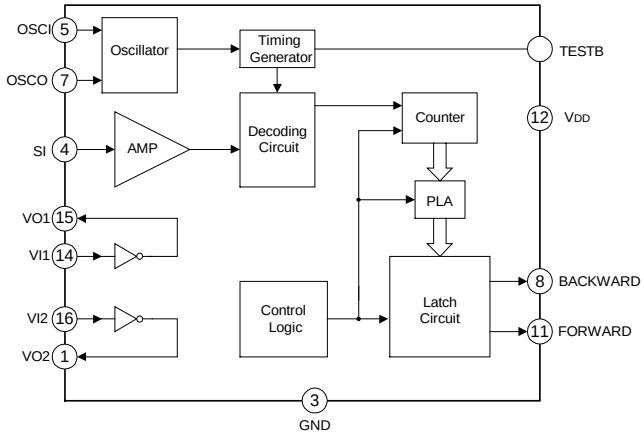
ORDERING INFORMATION

Part No.	Package
RX-3	DIP-16-300-2.54

PIN CONFIGURATION



BLOCK DIAGRAM



PIN DESCRIPTION

Pin No.	Symbol	Description
1	VO2	Inverter 2 output pin for signal amplify
2	NC	No connection
3	GND	Negative power supply
4	SI	Input pin of the encoding signal
5	OSCI	Oscillator input pin
6	NC	No connection
7	OSCO	Oscillator output pin
8	BACKWARD	Backward output pin
9	NC	No connection
10	NC	No connection
11	FORWARD	Forward output pin
12	VDD	Positive power supply
13	NC	No connection
14	VI1	Inverter 1 input pin for signal amplify
15	VO1	Inverter 1 output pin for signal amplify
16	VI2	Inverter 2 input pin for signal amplify

ABSOLUTE MAXIMUM RATINGS

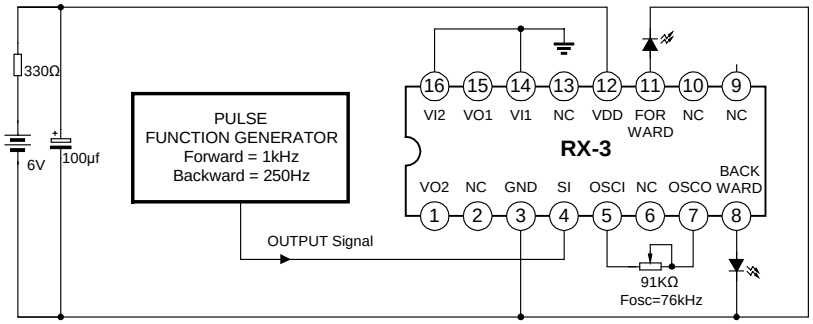
Characteristic	Symbol	Value	Unit
Supply Voltage	V_{DC}	0.3~15	V
Input / Output Voltage	$V_{I/O}$	GND-0.3~VDD+0.3	V
Operating Temperature	T_{OPR}	-10~60	°C
Storage Temperature	Tstg	-25~125	°C

ELECTRICAL CHARACTERISTICS

(V_{DD}=6.0V,Fosc=76KHz, Tamb=25°C, unless otherwise specified.)

Parameter	Symbol	Min	Typ	Max	Unit
Operating Voltage	V_{DD}	2.2	6	12	V
Operating Current	I_{DD}	--	9	--	mA
O/P Driving Current	I_{drive}	--	5	--	mA
Effect Decoding Frequency Variation	$F_{tolerance}$	-20%	--	20%	--

TESTING CIRCUIT (Fosc=76kHz)



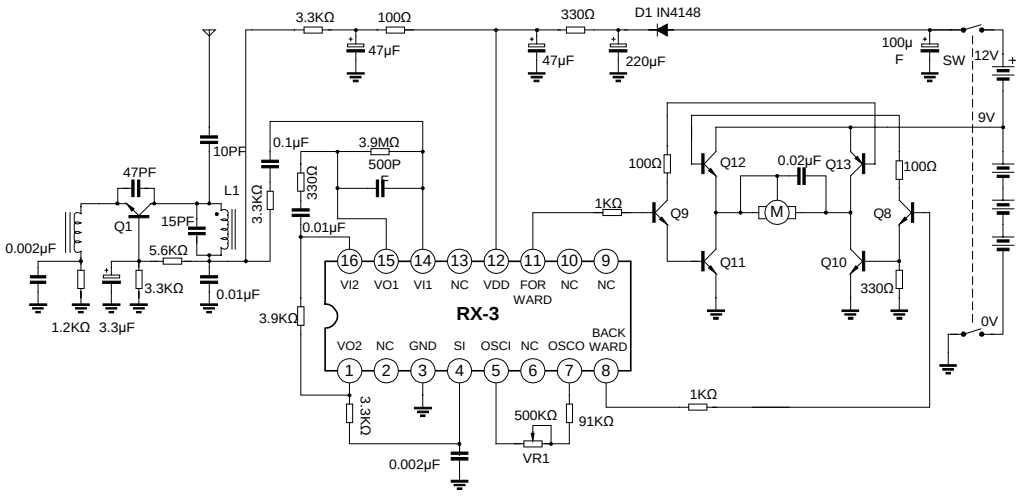
Data Format

Forward Signal: F1=1kHz

Backward Signal: F2=250Hz

F1=4F2 or F1=2F2 (Mask option)

TYPICAL APPLICATION CIRCUIT



PACKAGE OUTLINE

DIP-16-300-2.54 UNIT:mm