## Description

PT2240 is programmable encoder utilizing CMOS Technology specially designed for remote control applications. It has a maximum of 22 Address which may be designed by a one-time programmable process. It can support up to 8 Data Bits and is housed in 8 or 16-pin DIP or SO Package. It encodes address and data codes into a coded waveform suitable for RF modulation. The pin assignments and application circuit are optimized for easy PCB Layout and cost saving advantage. Furthermore, PT2240's intrinsic feature of being able to support 2/3/4/6/8 data bits considerably reduces inventory pressures.

## Features

- CMOS Technology
- Low Power Consumption
- Least External Components
- High Noise Immunity
- Single Resistor Oscillator
- Operating Voltage: $1.8 \sim 15 \mathrm{~V}$
- Up to 8 Data Pins
- Up to $2^{22}$ Address Codes
- One-Time Programmable Process
- Available in SO or DIP Package
- Reduction of Inventory Pressures


## Applications

- Burglar Alarm System
- Car Security System
- Car/Garage Door Controller
- Home/Office Security System
- Personal Alarm System


## Pin Configurations



## Application Circuits



Figure 1: PT2240 (8 Data) Application Circuit
Note: In order that IC protection is assured, please make sure that a diode is connected between the battery and the VDD. If the diode is not connected and the battery polarity was inverted, then the IC will fail.


Figure 2: PT2240 (8-pin) Application Circuit

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## Order Information

| Valid Part Number | Package | Address Codes |
| :---: | :---: | :---: |
| PT2240-D3 | 8 Pins, DIP | Programmable |
| PT2240P-D3 | 8 Pins, DIP | Programmed |
| PT2240-D3S | 8 Pins, SOP (150 mil) | Programmable |
| PT2240P-D3S | 8 Pins, SIP (150 mil) | Programmed |
| PT2240 | 8 Pins, DIP | Programmable |
| PT2240-S | 8 Pins, SOP (150 mil) | Programmable |
| PT2240P | 8 Pins, DIP | Programmed |
| PT2240P-S | 8 Pins, SOP (150 mil) | Programmed |
| PT2240-16 | 16 Pins, DIP | Programmable |
| PT2240-16S | 16 Pins, SOP (150 mil) | Programmable |
| PT2240P-16 | 16 Pins, DIP | Programmed |
| PT2240P-16S | 16 Pins, SOP (150 mil) | Programmed |

