

RE: CHANGING VERSION OF SM5032B (DIP)

WE WOULD LIKE TO INFORM YOU THAT SM5032B HAS BEEN FADED OUT AND REPLACED BY SM5032C (DIP). ATTACHED IS A SPECIFICATION OF SM5032C FOR YOUR REFERENCE. THE DIFFERENCE ARE LISTED AS BELOWS:

| PIN NO. | PIN DESCRIPTION | |
|---------|-----------------|---------------|
| | SM5032B | RENEW SM5032C |
| PIN 12 | C2 | C1 |
| PIN 11 | C1 | C2 |
| PIN 10 | TP2 | TP1 |
| PIN 9 | TP1 | TP2 |

BOTH C1 & C2 ARE INTERCHANGED AND TP1 & TP2 ARE INTERCHANGED.

GENERAL DESCRIPTION

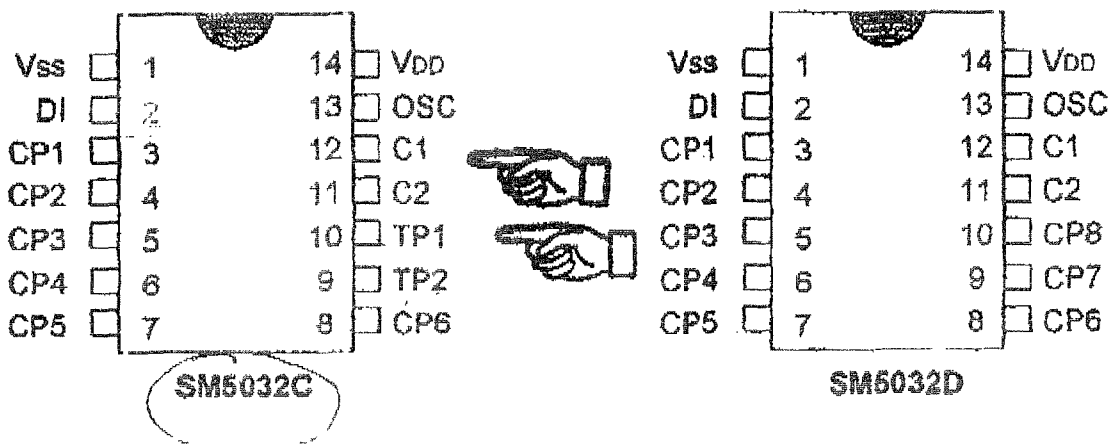
SM5032C/D is an infrared remote control decoder utilizing COMOS technology, paired with SM5021 for transmitter. The remote control system is capable of controlling eight functions and CP1 to CP6 can multi-decode. There is an option for two toggle signal outputs in these data control functions.

Also there are two custom codes for user to separate different products.

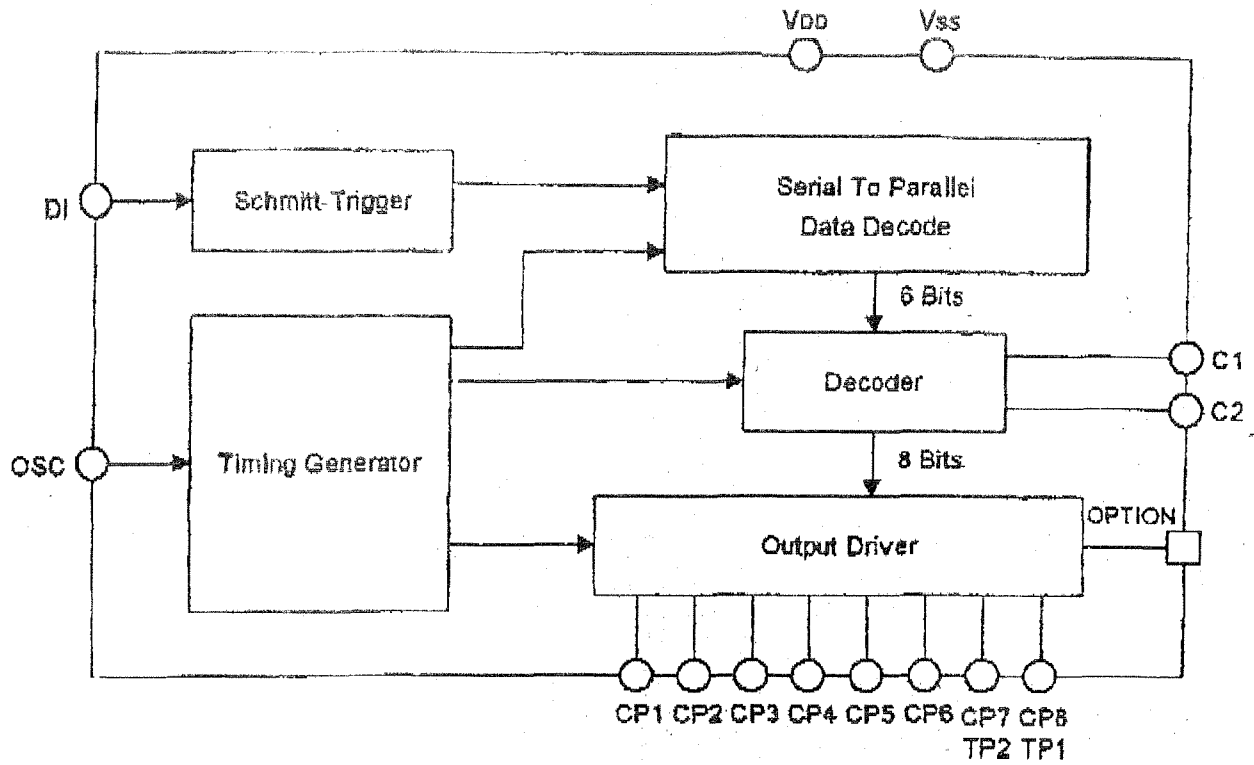
FEATURES

- * Wide operation voltage range, 2.4V to 6V
- * Infrared remote control receiver
- * Two custom code to separate products
- * Eight control functions for continuous signal
- * Multit-key control outputs
- * Two toggle signal can be optioned in outputs
- * A single terminal type oscillator by means of RC is provided
- * Low power consumption
- * High noise immunity
- * 14 pin DIP or SO package

PIN ASSIGNMENTS



BLOCK DIAGRAM

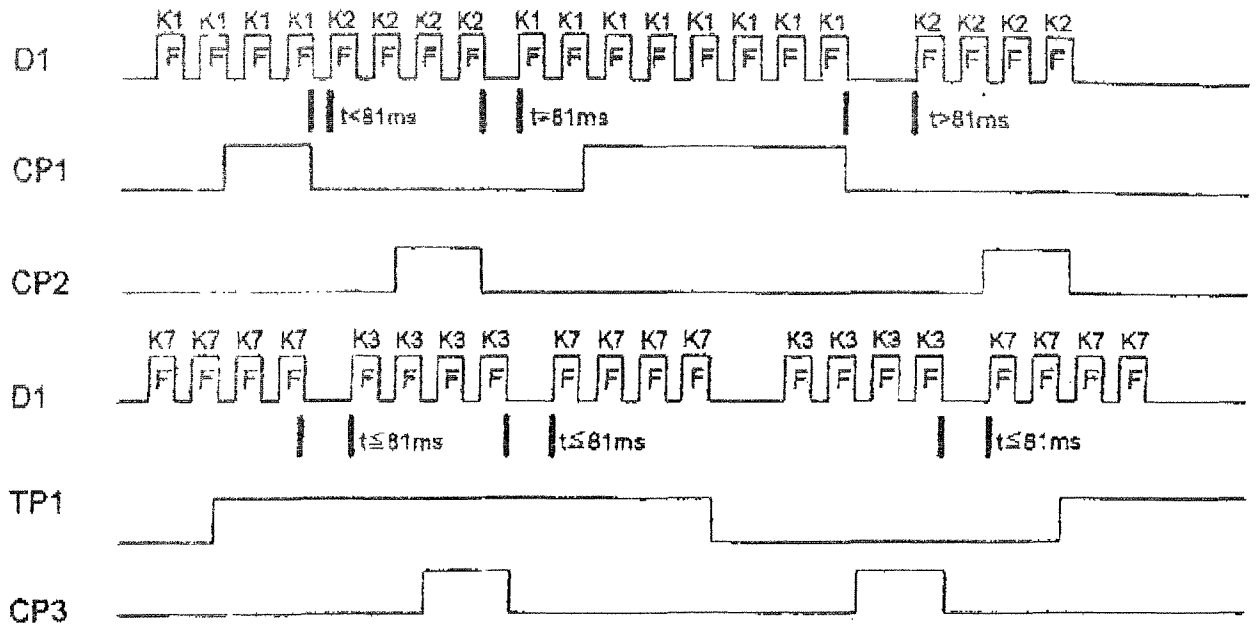


PIN DESCRIPTION

| Pin Name | I/O | Function |
|--------------------|-------|---|
| Vss | POWER | Negative power supply |
| DI | I | Signal Input |
| CP1 - CP6 | O | Multi-key control outputs |
| CP7, CP8 (TP2/TP1) | | Single-key control outputs (Toggle function option) |
| C1, C2 | I | Custom code |
| OSC | I | 38KHz OSC pin |
| VDD | POWER | Positive power supply |

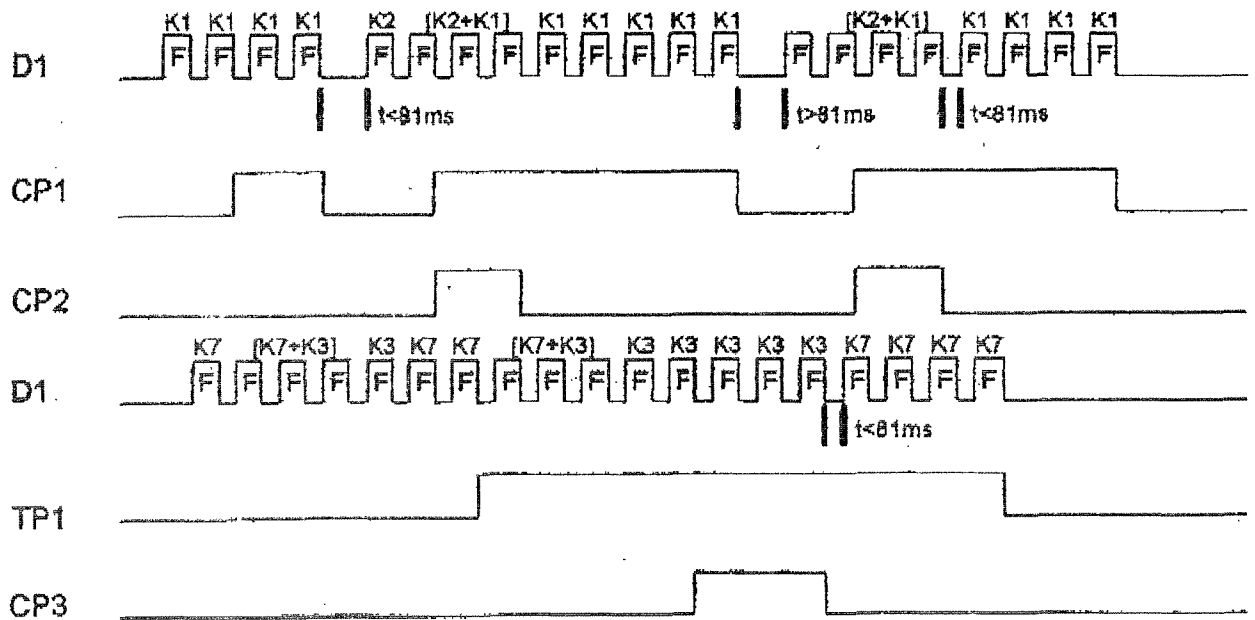
C. Receiver Waveform

Normal Condition (Paired With SM5021A)



Overlap Condition (Paired With SM5021B)

If more than one data is received, multi-key decode available. (Except for CP7/CP8 or TP1/TP2)



ABSOLUTE MAXIMUM RATINGS

| Parameter | Symbol | Test Conditions | Parameter | Unit |
|---------------------------|---------|-----------------|-----------------------|------|
| Supply Voltage | VDD-Vss | | -0.3 ~ 6 | V |
| Input Voltage | VI | | Vss - 0.3 ~ VDD + 0.3 | V |
| Output Voltage | Vo | | Vss - 0.3 ~ VDD + 0.3 | V |
| Maximum Power Consumption | Pa | VDD-Vss=5V | 500 | mW |
| Operating Temperature | Topr | | -10 ~ 70 | °C |
| Storage Temperature | Tstg | | -40 ~ 125 | °C |

DC ELECTRICAL CHARACTERISTICS

| Parameter | Symbol | Test Conditions | Limits | | | Unit |
|-----------------------------|--------|---|--------|------|------|------|
| | | | Min. | Typ. | Max. | |
| Supply Voltage | VDD | | 2.2 | 3 | 6 | V |
| Stand-by Current | ISB | VDD - Vss = 3 V OSC stop all output pins open | | 1 | | μA |
| | | OSC operation non-loading | | | 300 | |
| Input-high Level | VIH | | 1.5 | 2.1 | 3.5 | V |
| Input Low Level | VIL | | 0.7 | 1 | 1.5 | V |
| CP1 ~ CP8 Source Current | IOH | VOH = +2.4V | | | 1 | mA |
| CP1 ~ CP8 Sink Current | IOL | VOL = +0.8V | | | 1 | mA |

