

## EIGHT SOUND GENERATOR WITH SEVEN LED DRIVERS CHIP 八聲七閃燈芯片

VM99

## 1.0 FEATURES

- Wide power supply range (2 - 5V)
- Low standby power consumption
- Minimum external components
- Eight programmable sound effects with nine outputs
- Seven built-in LED drivers
- Sequential or random sound output
- Special or normal mode option

## 特點

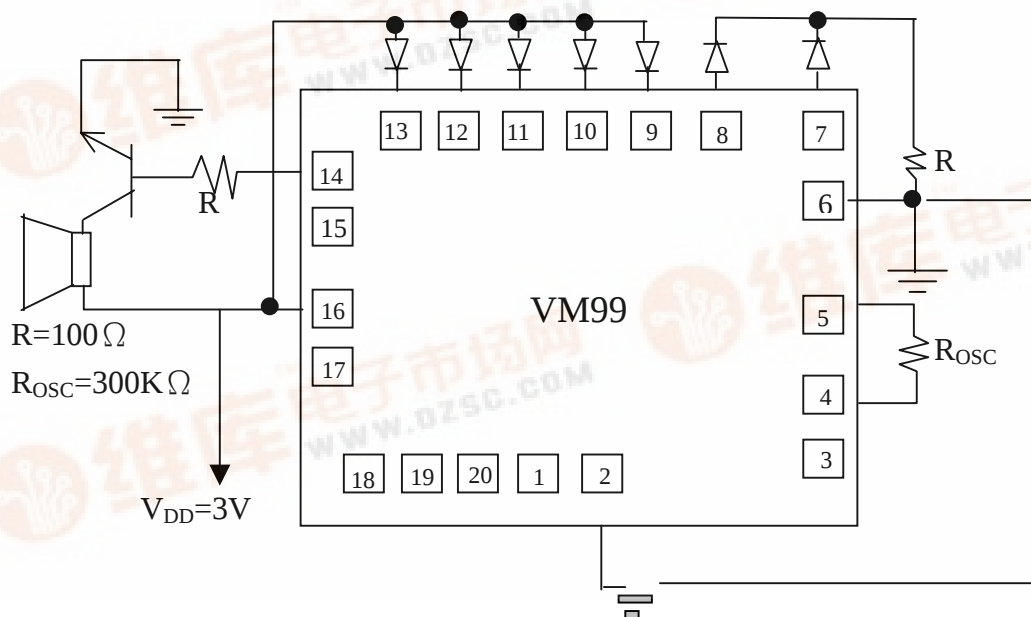
- 工作電壓(2 - 5V)
- 靜態功耗低
- 外接零件少
- 8種可程式音效, 9個輸出
- 7個內置 LED 驅動器
- 順次序或隨機輸出
- 特別或正常模式選擇

## 2.0 ELECTRICAL CHARACTERISTICS 電特性

 $V_{DD} = 3V$ ,  $T_A = 25^\circ C$  (unless otherwise specified 特別註明除外)

| PARAMETER                 | SYMBOL    | TEST CONDITIONS                    | LIMITS |     |     | UNIT    |
|---------------------------|-----------|------------------------------------|--------|-----|-----|---------|
|                           |           |                                    | MIN    | TYP | MAX |         |
| Operating Voltage 工作電壓    | $V_{DD}$  | -                                  | 2.5    | 3   | 4.5 | Volt    |
| Standby Current 靜態電流      | $I_{DD}$  | $V_{DD} = 3V$                      | -      | -   | 1.2 | $\mu A$ |
| Frequency 頻率              | FOSC      | $V_{DD} = 3V$                      | 43     | -   | 63  | KHz     |
| Output Current 輸出電流       | $I_O$     | $V_{OL} = 0.4V$<br>$V_{OH} = 2.2V$ | 1      | -   | -   | mA      |
| LED Sink Current LED 灌進電流 | $I_{LED}$ | Open Drain Output                  | 20     | -   | -   | mA      |

## 3.0 APPLICATION INFORMATION 應用資料

The IC substrate should be connected to  $V_{DD}$ . 芯片襯底請接  $V_{DD}$ .