




ONE KEY MULTI-SECTION
14 SEC VOICE

14 秒 語 音 IC

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| VOICE |  |
| M5214 | |

FEATURES 功能敘述

- IO1 : D/A, BusyH, BusyL, StopH, StopL, 3 Hz, 6 Hz, dynamic.
- IO2 : PWM1, BusyH, BusyL, StopH, StopL, 3 Hz, 6 Hz, dynamic.
- IO3 : PWM2, BusyH, BusyL, StopH, StopL, 3 Hz, 6 Hz, dynamic.
- Up to 16 voice section.
- 112 voice steps table up to 16 sub-table of steps.
- Direct driver speaker or buzzer.
- External or Built-in resistor.
- TG : SEQUENTIAL/RANDOM TRIGGER, EDGE/LH, RETRIG/IRRETRIG, HOLD/UNHOLD.
- Debounce time : 10ms/50 μ s
- Voice + Mute length MAX. 22 sec (S.R=6KHz)

APPLICATION 產品應用

- Toy s, Clock, Pager, Game etc..

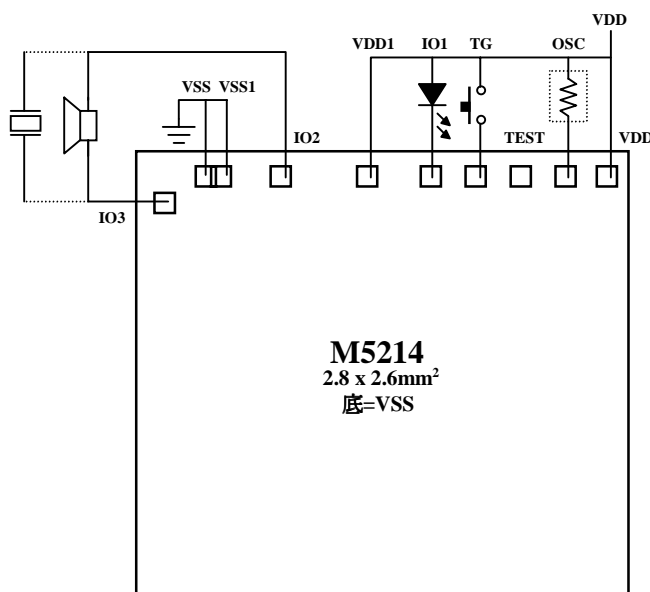
ELECTRICAL CHARACTERISTICS 電氣規格

(@V_{DD}=3V unless otherwise specified)

| Characteristics | Sym. | Min. | Typ. | Max. | Unit | REMARKS |
|----------------------------|------------------|------|------|------|--------------|-------------------------------------|
| 工作電壓 Operating Voltage | V _{DD} | 2.4 | 3 | 5.0 | V | |
| 工作電流 Operating Current | I _{OP} | — | 0.2 | 1 | mA | No load |
| 靜態電流 Quiescent Current | I _{SB} | — | 1 | 5 | μ A | |
| 推動電流 AUD Driving Current | I _O | — | -3 | — | mA | @ Vout=0.7V, Full Scale |
| 推動電流 LO Driving Current | I _{OH} | 1 | — | — | mA | @ Vout=2V |
| | I _{OL} | 3 | — | — | | @ Vout=1.0V |
| 振盪頻率 Oscillator Frequency | F _{OSC} | — | 768 | — | KHz | External \pm 30%, Rosc=K Ω |
| 工作溫度 Operating Temperature | Temp. | -10 | 25 | 60 | $^{\circ}$ C | |

APPLICATION DIAGRAM 參考電路圖

(A) IO1-LED IO2:PWM1 IO2:PWM2



*All specs and applications shown above subject to change without prior notice.

(以上電路及規格僅供參考,本公司得逕行修正)



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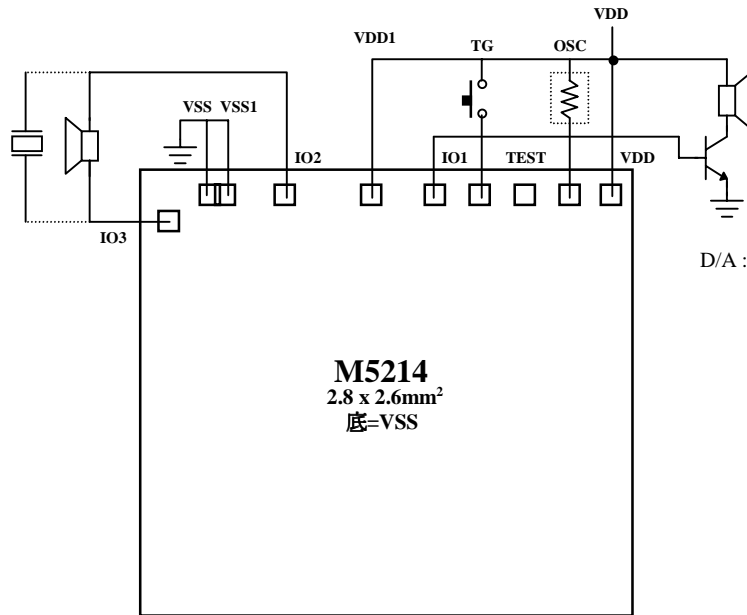
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APPLICATION DIAGRAM 參考電路圖 (CONTINUED)

(B) IO1-D/A IO2:PWM1 IO2:PWM2




D/A : 3 current output level
(1.5mA, 3mA, 4.5mA)
By mask option

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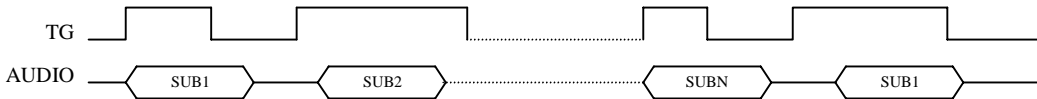
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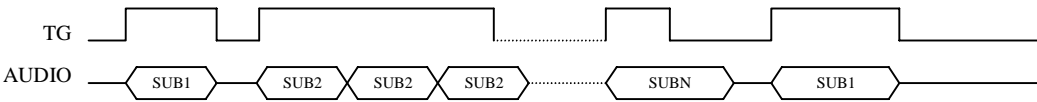
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SEQUENTIAL TRIGGER:

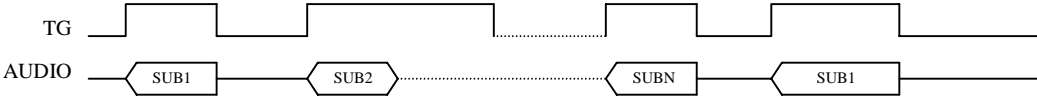
• EDGE/UNHOLD



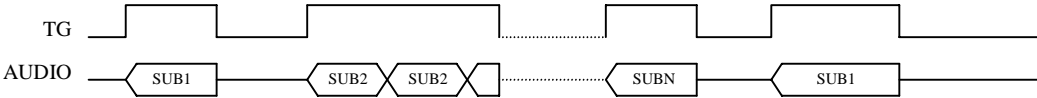
• LH/UNHOLD



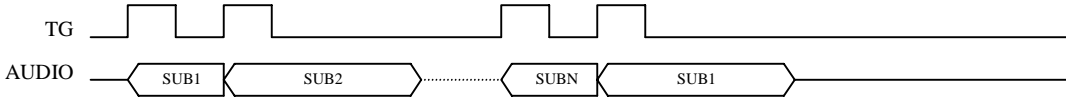
• EDGE/HOLD



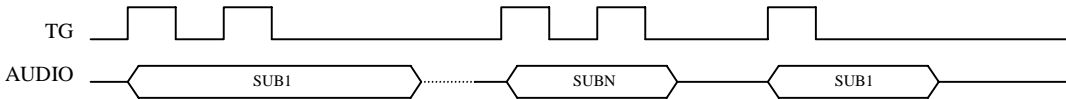
• LH/HOLD



• RETRIG




• IRRETRIG





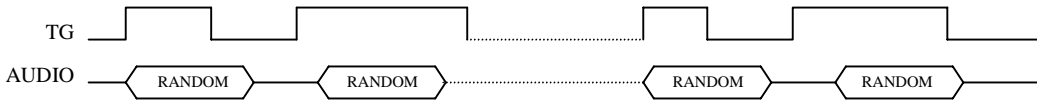
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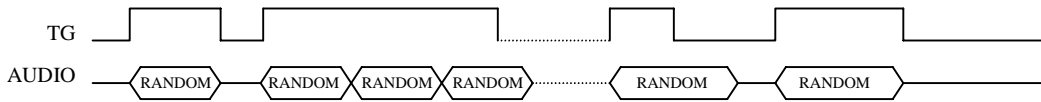
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RANDOM TRIGGER:

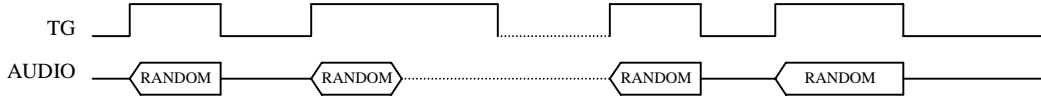
• EDGE/UNHOLD



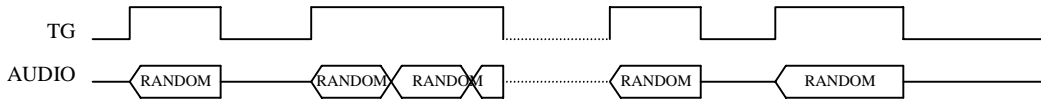
• LH/UNHOLD



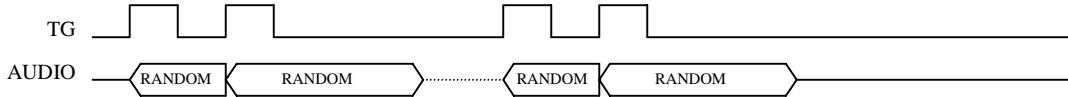
• EDGE/HOLD



• LH/HOLD



• RETRIG



• IRRETRIG

