




DING-DONG  
DOOR BELL

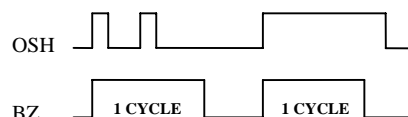
單音門鈴 IC

SOUND EFFECT	
M2358	

FEATURES 功能敘述

- MODE : VDD CONTROL.
- Separate LED and BUZZER driver.

M23581	1 TIME
M23582	2 TIMES



APPLICATION 產品應用

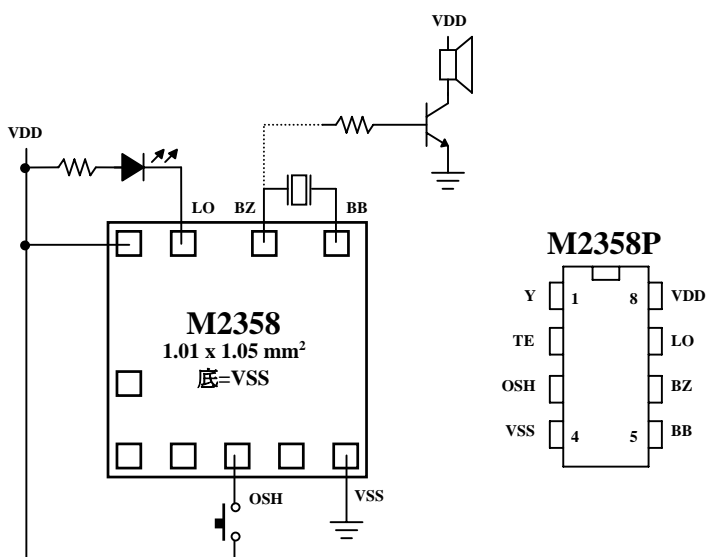
- Door Bell, Toys.

ELECTRICAL CHARACTERISTICS 電氣規格

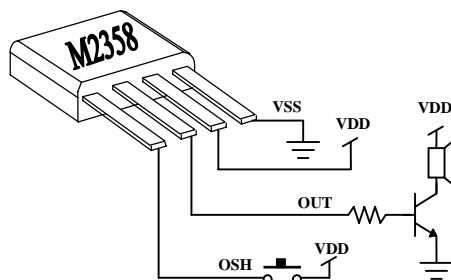
( @V<sub>DD</sub>=3V unless otherwise specified )

Characteristics	Sym.	Min.	Typ.	Max.	Unit	REMARKS
工作電壓 Operating Voltage	V <sub>DD</sub>	—	3	3.5	V	
工作電流 Operating Current	I <sub>OP</sub>	—	0.1	0.5	mA	No load
靜態電流 Quiescent Current	I <sub>SB</sub>	—	1	5	μA	
推動電流 BZ Driving Current	I <sub>O</sub>	1	—	—	mA	@V <sub>DS</sub> =1V
推動電流 LO Driving Current	I <sub>OL</sub>	6	—	—	mA	@V <sub>DS</sub> =1.2V
振盪頻率 Oscillator Frequency	F <sub>OSC</sub>	—	100	—	KHz	±30% TOL.
工作溫度 Operating Temperature	Temp.	0	25	60	°C	

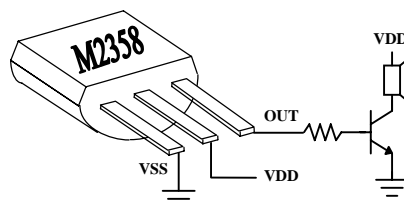
APPLICATION DIAGRAM 參考電路圖



TO93-4L ( Suffix-F )



TO92-3L



\*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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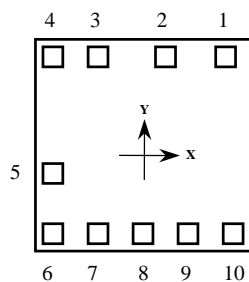
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**PAD ASSIGNMENT & POSITION**



UNIT : um

No.	NAME	X	Y
1	BB	295	345
2	BZ	49	345
3	LO	-181	345
4	VDD	-361	345
5	Y	-361	-159
6	X	-338	-385
7	TE	-163	-385
8	OSH	12	-385
9	LH/ON	187	-385
10	VSS	362	-350

\* CHIP SIZE ~ 1.01 x 1.05 mm<sup>2</sup>

\* IC substrate should be connected to VSS in PCB ( PCB 上 IC 必須接 VSS )

( 以上電路及規格僅供參考,本公司得逕行修正 )