



一華半導體股份有限公司
MOSDESIGN SEMICONDUCTOR CORP.

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ON/OFF, OSH
ANDOM/SEQUENCE

6 LED 閃燈 IC

LED FLASH

M1600A



FEATURES 功能敘述

- ON/OFF : ON/OFF toggle. Default ON.
- OSH : One-Shot.
- RD/SEQ : Random/Sequence. Default RD.
- Power-on blinking.

P/N	Rosc	Fosc	Duty	OSH Cycle	LED Flash	LED Driver	FLED (Hz)	POWER
M1600A-1	Ext.		1/6	32	L1→L6	2/3	2.6	ON
M1600A-2	Int.		1/12	32	L6→L1	2/3	2.6	ON
M1600A-3	Ext.		1/6	32	L1→L6	1	2.6	ON
M1600A-4	Int.	65	1/12	32	L6→L1	1	2.6	ON
M1600A-4A	Int.	85	1/12	32	L6→L1	1	3.5	ON
M1600A-4B	Int.	85	1/12	32	L6→L1	1	3.5	OFF
M1600A-5	Ext.		1/6	16	L1→L6	1	2.6	ON
M1600A-6	Int.		1/12	8	L6→L1	1	2.6	ON

APPLICATION 產品應用

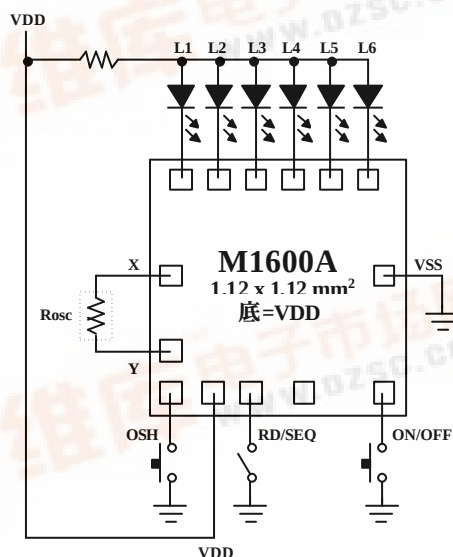
- Arcade game system, Toys.

ELECTRICAL CHARACTERISTICS 電氣規格

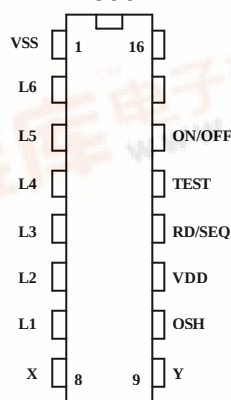
(@ $V_{DD}=3V$ unless otherwise specified)

Characteristics	Sym.	Min.	Typ.	Max.	Unit	REMARKS
工作電壓 Operating Voltage	V_{DD}	—	3	3.5	V	
工作電流 Operating Current	I_{OP}	—	0.1	0.5	mA	No load
靜態電流 Quiescent Current	I_{SB}	—	1	5	μA	
推動電流 Driving Current	I_{OL}	20	—	—	mA	@ $V_{DS}=1.2V$
振盪頻率 Oscillator Frequency	F_{OSC}	—	65	—	KHz	External $\pm 30\%$
工作溫度 Operating Temperature	Temp.	0	25	60	$^{\circ}C$	

APPLICATION DIAGRAM 參考電路圖



M1600AP



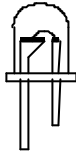


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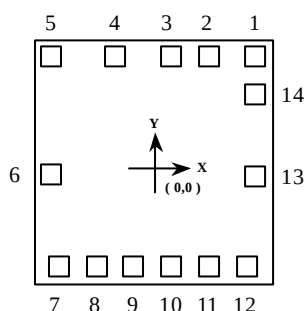
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PAD ASSIGNMENT & POSITION



UNIT : μm			
No.	NAME	X	Y
1	OSH	433.5	432.75
2	VDD	252.75	432.75
3	RD/SEQ	99	432.75
4	TEST	-120	431.25
5	ON/OFF	-429	432.75
6	VSS	-430.5	-54
7	L6	-396.75	-431.25
8	L5	-238.5	-431.25
9	L4	-80.25	-431.25
10	L3	78	-431.25
11	L2	236.25	-431.25
12	L1	394.5	-431.25
13	X	433.5	-51.75
14	Y	433.5	-279

* CHIP SIZE $\sim 1.12 \times 1.12 \text{ mm}^2$

* IC substrate should be connected to VDD in PCB (PCB 上 IC 必須接 VDD)
(以上電路及規格僅供參考,本公司得逕行修正)