



LED FLASH	
M1349	

RGB LED IC

三色燈 LED IC

FEATURES 功能敘述

8 Steps (R,G,B,RG,GB,RB,RGB) LED color Mixer.

OSH : one-shot 4 section .

ON/OFF : ON/OFF toggle (section 2).

Automatic start the one shot function when power on.

Section	LED
1	單燈漸暗 1 LED fade
2	漸亮漸暗 Slow fade
3	單閃 1 LED flash
4	雙閃 2 LED flash

APPLICATION 產品應用

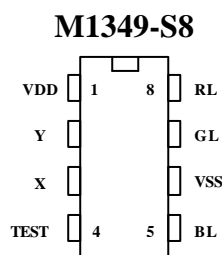
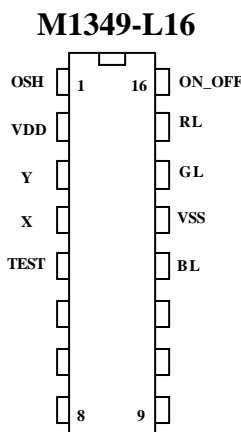
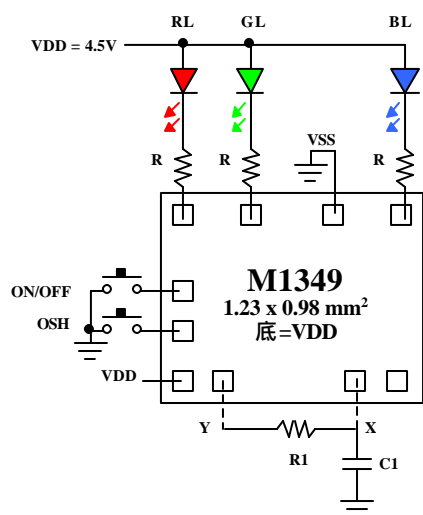
Blinking LED, Function indicator, R.G.B Mix etc..

ELECTRICAL CHARACTERISTICS 電氣規格

(@ $V_{DD}=4.5V$ unless otherwise specified)

Characteristics	Sym.	Min.	Typ.	Max.	Unit	REMARKS
工作電壓 Operating Voltage	V_{DD}		4.5	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}		26		mA	@ $V_{DS} = 1.2 V$
閃爍速度 Oscillator Frequency	F_{LED}		1.7		Hz	$\pm 30\%$ TOL.
工作溫度 Operating Temperature	Temp.	0	25	60		

APPLICATION DIAGRAM 參考電路圖



VDD=4.5V	
Color of the LED	Recommend resistance
Red (R)	47
Green (G)	22
Yellow Green (YG)	
Blue (B)	0

Section 1 R, C 調整表

@VDD=4.5V			
R (K)	TIME (Sec.)	C (pF)	TIME (Sec.)
20	2.5	1	15.4
47	4	82	25
68	5.3	180	28.1
120	7.2	330	30
330	10.7	500	31
910	13	680	31.8

* Typical : 37 Sec. $\pm 20\%$

* External C1 : decrease the Fosc.

* External R1 : increase the Fosc.

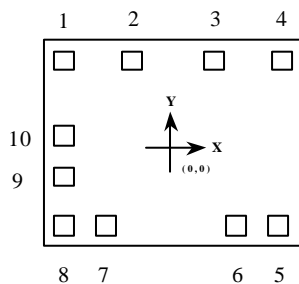


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PAD ASSIGNMENT & POSITION



UNIT : um

No.	NAME	X	Y
1	RL	-490.00	363.25
2	GL	-192.50	363.25
3	VSS	178.00	363.25
4	BL	489.00	363.25
5	TEST	437.50	-364.00
6	X	262.50	-364.00
7	Y	-315.00	-364.00
8	VDD	-490.00	-364.00
9	OSH	-490.00	-141.00
10	ON_OFF	-490.00	34.00

* CHIP SIZE ~ 1.23 x 0.98 mm²

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

*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)