MOSDESIGN SEMICONDUCTOR CORP.

TAIPEI : TEL : 886-2- 22783733
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XMAS LIGHT

M80056B



8 FUNCTIONS
XMAS LIGHT CONTROL

8 段功能单键
圣诞灯串控制 IC

FEATURES 功能叙述

- 1 key operation.
- Operation mode : 8 modes.
- Direct drive SCR.
- Built-in oscillator.

MODE	FUNCTIONS	功能
1	COMBINATION	第二段到第七段
2	IN WAVES	2 种 波浪前进后退
3	SEQUENTIAL	4 种 跑马
4	SLO-GOL	3 种 单灯渐明渐暗
5	CHASING / FLASH	跑马前进后退，星星闪烁
6	SLOW FADE	3 种 四灯同时渐明渐暗
7	TWINKLE / FLASH	双灯星星闪烁，跑马
8	STEADY ON	灯串固定不闪

APPLICATION 产品应用

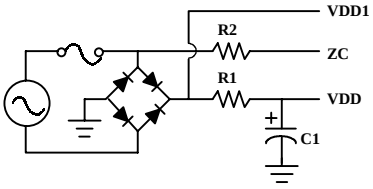
- Xmas light controller, any AC control toy.

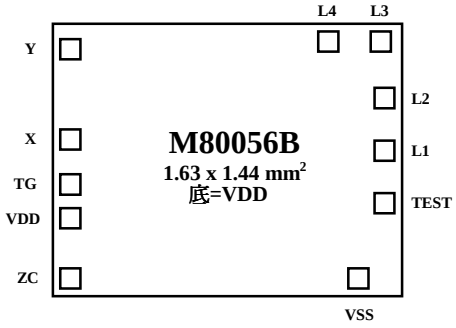
ELECTRICAL CHARACTERISTICS 电气规格

(@V_{DD}=3.6V unless otherwise specified)

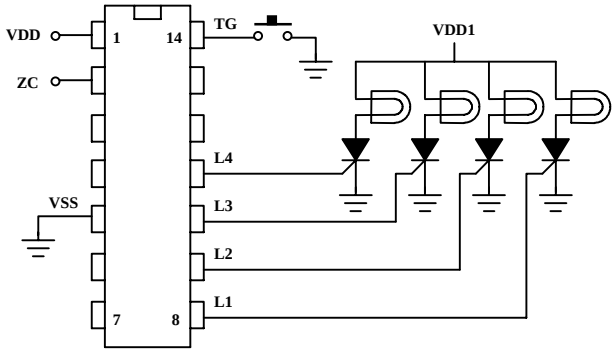
Characteristics	Sym.	Min.	Typ.	Max.	Unit	REMARKS
工作电压 Operating Voltage	V_{DD}	3	4	5	V	
工作电流 Operating Current	I_{OP}	—	—	2	mA	No load
静态电流 Quiescent Current	I_{SB}	—	—	—	μA	
推动电流 BZ Driving Current	I_{OH}	—	0.2	—	mA	@ V_{DS}=1V
振荡频率 Oscillator Frequency	F_{OSC}	—	250	—	KHz	±30% TOL.
工作温度 Operating Temperature	Temp.	0	25	60	℃	

APPLICATION DIAGRAM 参考电路图





M80056BP



	AC110V 60Hz	AC220V 50Hz	AC24V 50Hz
R1	82KΩ	180KΩ	20KΩ
R2	1M	1M	1M
C1	47μ/16V	47μ/16V	47μ/16V

* All specs and applications shown above subject to change without prior notice.
(以上电路及规格仅供参考,本公司得径行修正)

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XMAS LIGHT

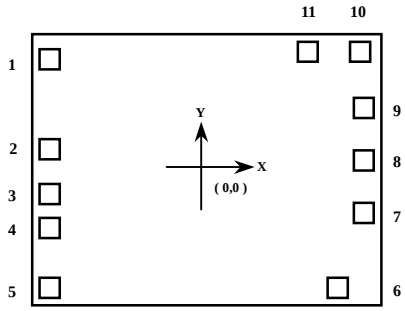
M80056B



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XMAS LIGHT CONTROL

8 段功能单键
圣诞灯串控制 IC

PAD ASSIGNMENT & POSITION



UNIT : um

No.	NAME	X	Y
1	OSC2	-873	618
2	OSC1	-873	106
3	TG	-873	-143
4	VDD	-873	-348
5	ZC	-873	-681
6	VSS	724	-676
7	TEST	875	-250
8	L1	869	50
9	L2	857	346
10	L3	834	672
11	L4	541	672

CHIP SIZE ~ 1.63 x 1.44 mm^2

* IC substrate should be connected to VDD in PCB (PCB 上 IC 必须接 VDD)