



LED FLASH	
M18110	

## 8 LEDS FLASH

## 8 LEDS 来电显示控制 IC

### FEATURES 功能叙述

- Rosc ext. / built-in available.
- Power-on blinking about 5 sec.
- Mode: OSH / LH select default LH. When no signal after 2 sec then LED off.
  - OSH: one-trigger-on section.
  - LH: auto change section.
- Motor: active high to driver motor ( 64 Hz carry ).
- On: connect to VDD LED steady on.
- VP: adjust the detector distance , recommend  $R = 2M \Omega$ 
  - $R > 2M \Omega$ , increase detector distance.
  - $R < 2M \Omega$ , decrease detector distance.

### APPLICATION 产品应用

- Key chain , Mobile phone, Toys.

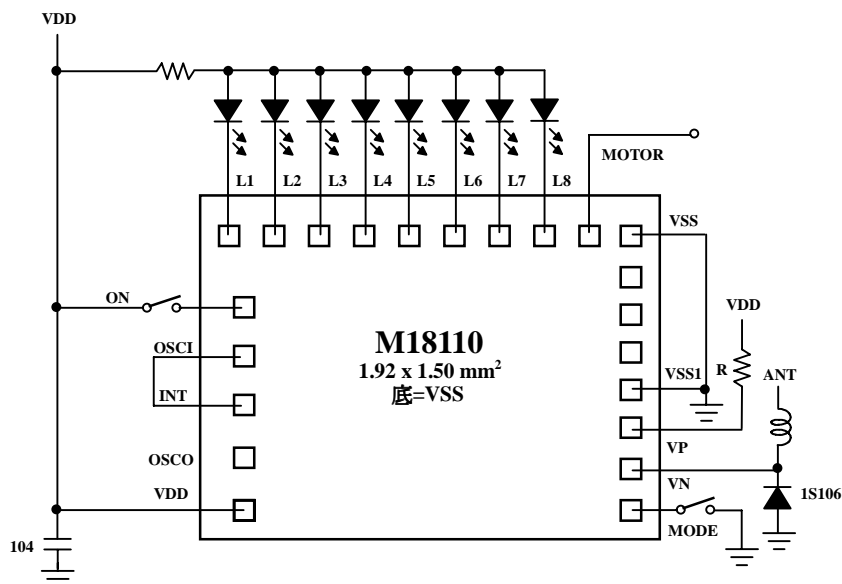
### ELECTRICAL CHARACTERISTICS 电气规格

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

Characteristics	Sym.	Min.	Typ.	Max.	Unit	REMARKS
工作电压 Operating Voltage	$V_{DD}$	—	3	5	V	
工作电流 Operating Current	$I_{OP}$	—	0.1	0.5	mA	No load
静态电流 Quiescent Current	$I_{SB}$	—	1	5	$\mu A$	
推动电流 Driving Current	$I_{OL}$	20	—	—	mA	@ $V_{DS}=1.2V$
振荡频率 Oscillator Frequency	$F_{OSC}$	—	256	—	KHz	$\pm 30\%$ TOL.
工作温度 Operating Temperature	Temp.	0	25	60	$^{\circ}C$	

### APPLICATION DIAGRAM 参考电路图

( A ) Internal Rosc.



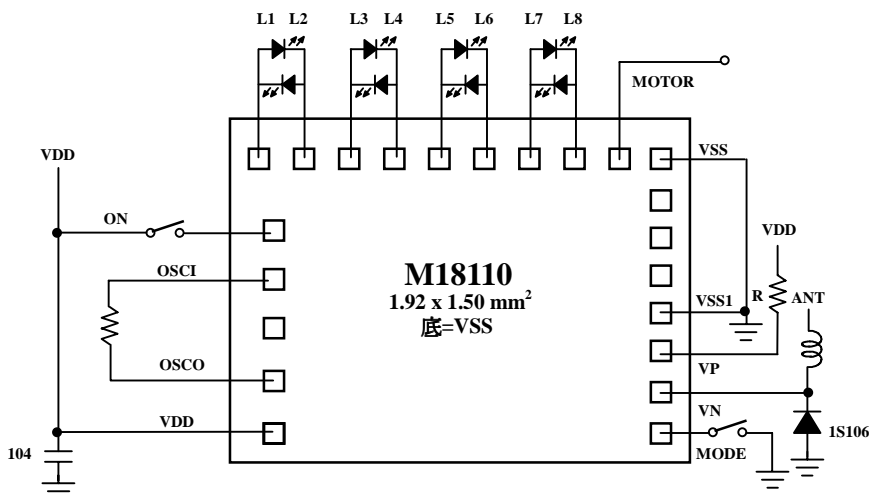


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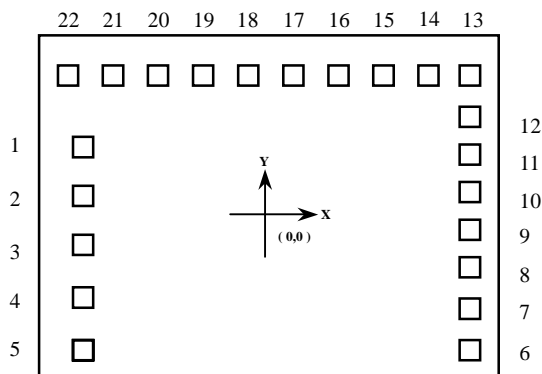
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( B ) External Rosc.



\* VDD、VDD1、VSS & VSS1 must bonding together.

PAD ASSIGNMENT&POSITION



Unit : um

NO	NAME	X	Y
1	ON	-716.70	237.40
2	OSCI	-716.70	34.00
3	INT	-716.70	-169.40
4	OSCO	-716.70	-372.80
5	VDD	-716.70	-576.10
6	MODE	786.70	-576.20
7	VN	786.70	-418.70
8	VP	786.70	-261.10
9	VSS1	786.70	-106.10
10	TF64	786.70	48.90
11	TSELB	786.70	203.90
12	TESTB	786.70	359.00
13	VSS	786.70	526.00
14	MOTOR	627.50	526.00
15	L8	452.60	526.00
16	L7	277.60	526.00
17	L6	102.30	526.00
18	L5	-72.30	526.00
19	L4	-247.40	526.00
20	L3	-422.40	526.00
21	L2	-597.30	526.00
22	L1	-775.20	526.00

\* CHIP SIZE ~ 1.92 x 1.50 mm<sup>2</sup>

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

\*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 )