

MBC7600

RGB

LED

概述

C7600 LED IC MCU MCU

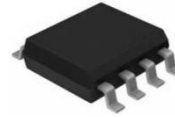
特征

-
- 12mA(
- 256
- DIN DOUT
-
- 800 ~ 1200KHz
- 5V

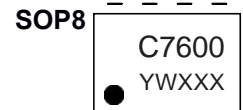
应用领域

- Led , Led
- Led
- Led
- Led
- Led

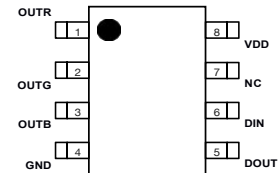
封装信息



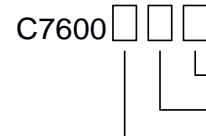
Y: Year code
W: Week code
XXX: Lot No.



引脚信息

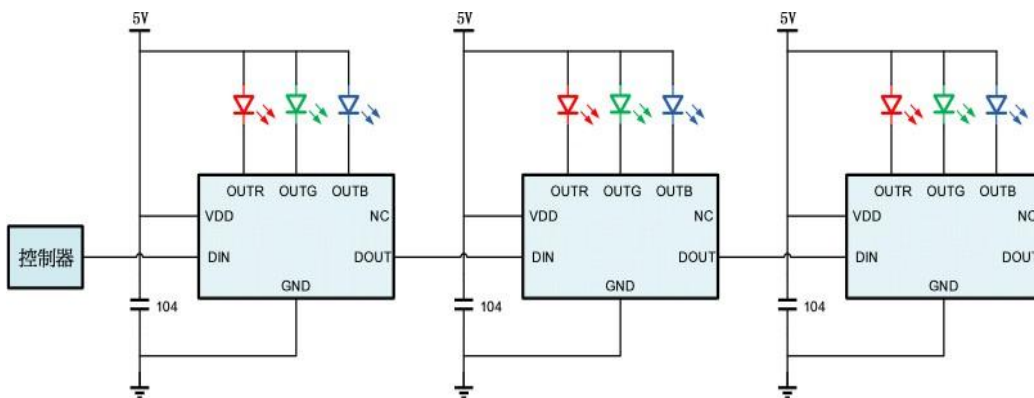


订购信息



C7600SDT	SOP8		4000
C7600WF	Wafer		1

典型应用



绝对最大额定值

V _{DD}	-0.3 ~ 7.0V			-40 ~ +85°C
	-0.3 ~ 6.5V			-65 ~ +150°C
ESD				150°C
HBM ()	V		10s	260°C
MM ()	V	SOP8	JA	90°C/W
CDM ()	V	SOP8	JC	45°C/W

推荐工作条件

V _{DD}	~ 5.5V
OUT	12mA

电气特性

V_{DD} = 5.0V, T_A = 25°C

	V _{DD}			5	5.5	V
	I _{DD}			350		μA
	V _{IH}	I _{BAT} = 40mA	0.7V _{DD}			V
	V _{IL}	V _{BAT}			0.3V _{DD}	V
	I _{OH}			36		mA
	I _{OL}			36		mA
OUT	V _{DS_S}	I _{OUT} = 12mA		0.7		V
OUT	%VS.V _{DS}	I _{OUT} = 12mA, V _{DS} = 1.0 ~ 3.0V		0.5		%
	%VS.V _{DD}	I _{OUT} = 12mA, V _{DD} = 4.5 ~ 5.5V		0.5		%
	%VS.T _A	I _{OUT} = 12mA, T _A = -40 ~ 85°C		4.0		%
OUT	I _{LEAK}				0.8	μA
	F _{DIN}		800		1200	KHz
DOUT	T _{PLH}	C _{LOAD} = 30pF		80		nS
	T _{PHL}			80		nS
IOUT	T _R	I _{OUT} = 12mA, OUT V _{DD} , 15pF	200	50		nS
	T _F			110		nS
0	T _{0H}			300		nS
1	T _{1H}			600		nS
0	T _{0L}			600		nS
1	T _{1L}			300		nS
	T _{RST}		80			μS

1

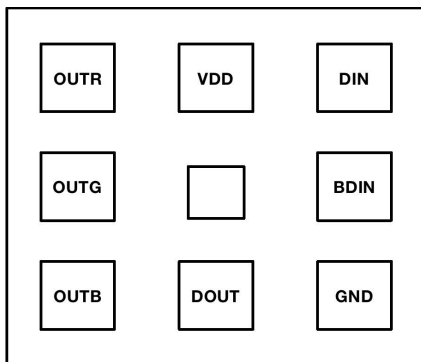
2

3

引脚描述

1	OUTR	
2	OUTG	
3	OUTB	
4	GND	
5	DOUT	
6	DIN	
7	NC	
8	VDD	

芯片 PAD 图



323.33 * 307.18u ()
 60u
 PAD 80 * 80u Pitch 100u
 PAD 3u

芯片 PAD 坐标

Pad	Pad	x	y	Pad open
GND	53.12	253.51		80*80
DIN	53.12	153.51		80*80
VDD	153.51	53.51		80*80
OUTR	270.17	53.51		80*80
OUTG	270.17	153.51		80*80
OUTB	270.17	253.51		80*80
DOUT	153.51	253.51		80*80

C7600 LED C7600 DIN C7600 OUTB RESET C7600
 24 bit DOUT 0
 DOUT 0
 OUTR OUTG
 80µs
 24bit

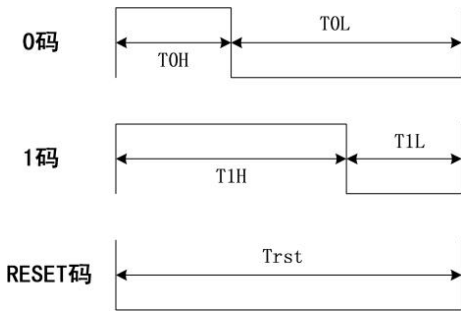
OUTR OUTG OUTB OUTR
 OUTG OUTB 24bit

C7600

512
 512*0.4*2 0.4096ms

C7600 0 1

0 1
 T0H 300ns T0L 600ns
 T1H 600ns T1L 300ns 20%
 TRST >80us

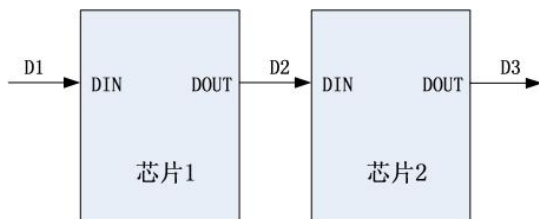


5050



8*3bit RGB
 8 R7...R0 G7...G0 B7...B0 R G B
 PWM 0 1
 8bit 256
 R7

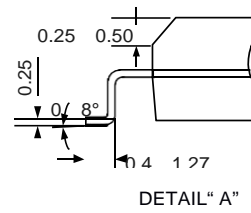
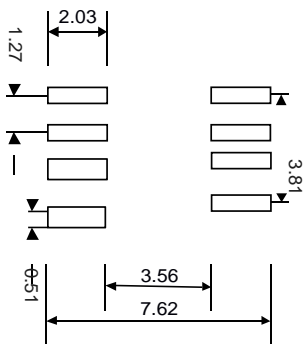
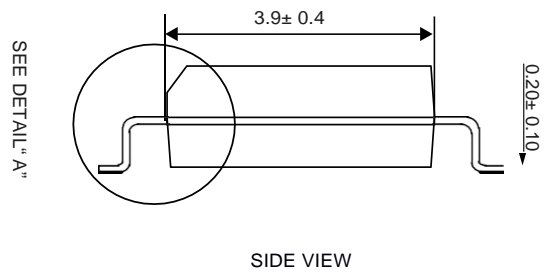
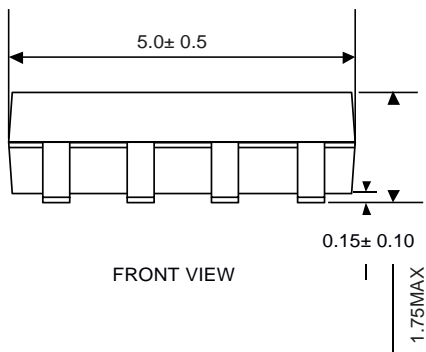
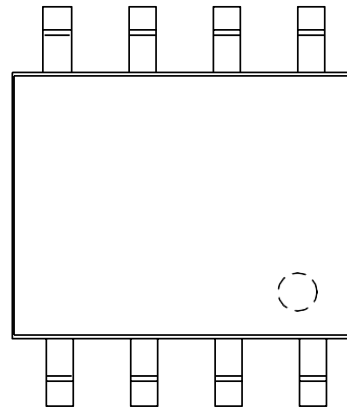
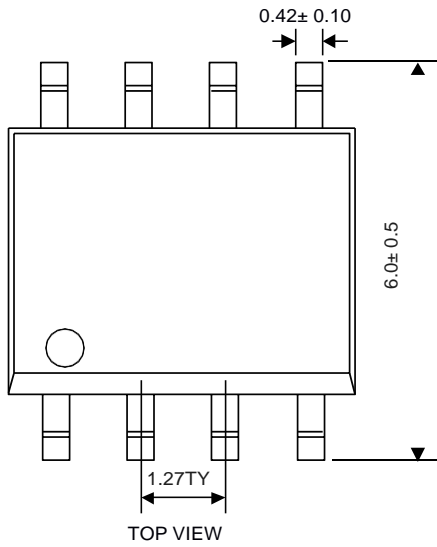
B0



封装描述

SOP8

mm



NOTE:

- 1) ALL DIMENSIONS ARE IN MILLIMETERS.
- 2) EXPOSED PADDLE SIZE DOES NOT INCLUDE MOLD FLASH.
- 3) LEAD COPLANARITY SHALL BE 0.10 MILLIMETER MAX.
- 4) DRAWING CONFORMS TO JEDEC MO-229, VARIATION VEED-5.
- 5) DRAWING IS NOT TO SCALE.