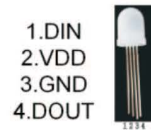


# Shift register programmable RGB Lamp

## Feature

- Power supply: DC4.5V~6V
- Integrate RGB LEDs with Control IC at same body
- Support 256 dimming level for each color
- Internal frequency up to 800K Hz
- Single wire signal transmission(clock and Data)
- To be controlled by external MCU to achieve target image
- Available on  $\phi 5\text{mm}$ ,  $\phi 8\text{ mm}$
- No external component required

## Package Type



APA-106-F8

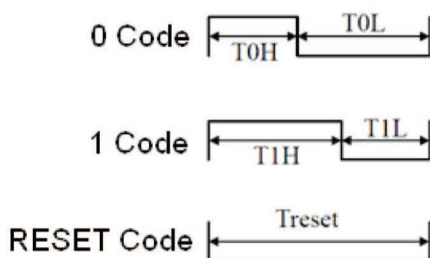


APA-106-F5

## Package selection

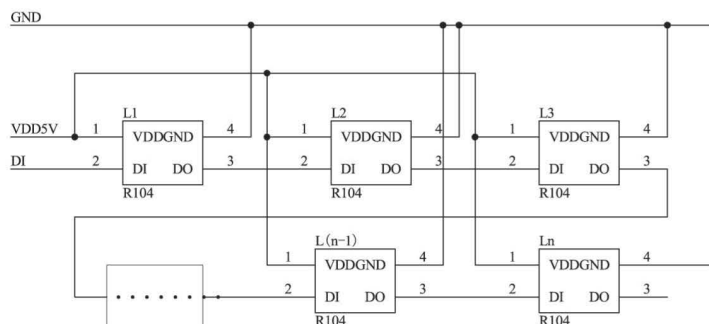
PART No.	Package
APA-106-F8	$\phi 8$
APA-106-F5	$\phi 5$

## Timing waveform



Name	Description	Typically	Allowable error
T0H	0 code, high level time	0.35 $\mu\text{s}$	$\pm 150\text{ns}$
T1H	1 code, high level time	1.36 $\mu\text{s}$	$\pm 150\text{ns}$
T0L	0 code, low level time	1.36 $\mu\text{s}$	$\pm 150\text{ns}$
T1L	1 code, low level time	0.35 $\mu\text{s}$	$\pm 150\text{ns}$
RES	RESET code	50 $\mu\text{s}$	

## Application Note



LED screen

## Typical Application



Spot light for advertsing



Flexible LED string