



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Test Procedure for the LV52206XAEVB Evaluation Board

Input Voltage	2.7~5.5V
Over Voltage Protection	38V
Oscillation Frequency	600kHz

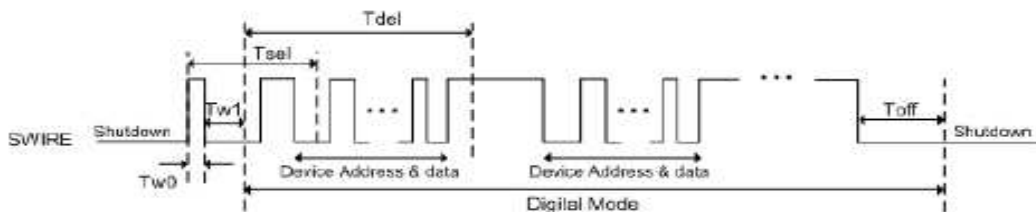
1. Please input "High" into SWIRE PIN during the period that is longer than $T_{on}(20\mu\text{Sec})$ to start IC.
2. Then, please select a mode during mode select period(T_{sel}). When you select Digital Mode, please input "Low" longer than T_{w1} after "High" longer than $T_{w0}(100\mu\text{Sec})$ within $T_{sel}(1\text{mSec})$ period. It becomes PWM mode if you fail to set Digital mode in specified timing period.

In the case of PWM frequency is less than 6.6kHz, it may become Digital Mode when you input a narrow pulse of Duty. To evade it, input "High" that is longer than $T_{sel}(2.2\text{mSec})$, and, please input PWM pulse afterwards.

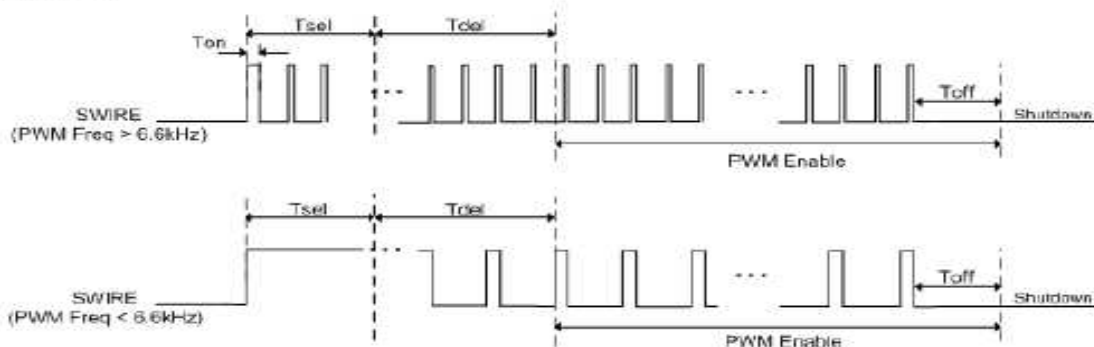
3. IC shut down when you make SWIRE PIN Low longer than $T_{off}(8.9\text{ms})$ period.

The Data register is stored at this point. The reset of the power supply is necessary to clear it. In addition, the mode is initialized when you shut down IC. Please make mode select each time you reboot.

Digital Mode



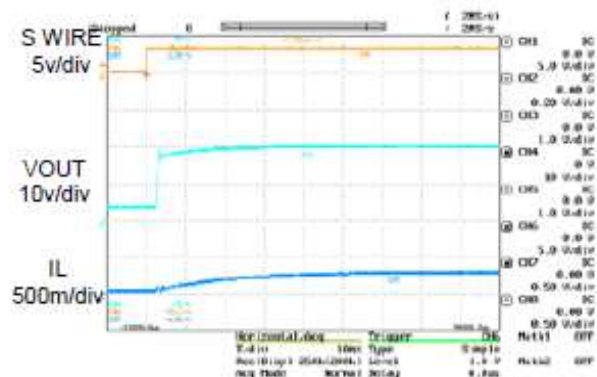
PWM Mode





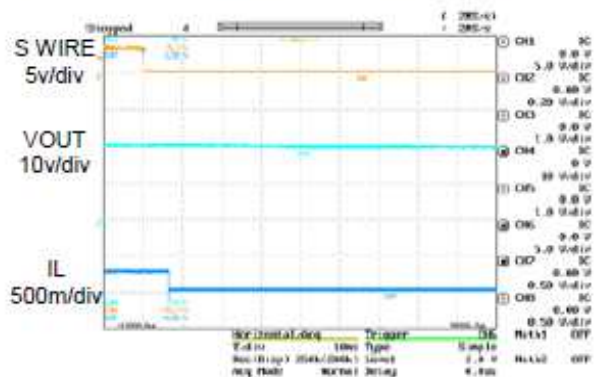
Start Up

VIN=3.6V, L=22uH, 6LED*2para Cfcap=22nF LEDI=20



Shutdown

VIN=3.6V, L=22uH, 6LED*2para Cfcap=22nF LEDI=20mA



BITMAP of the LED Control

adress		R/W	DATA				
A1	A0		D4	D3	D2	D1	D0
0	0	W	LEDI[4:0]				
			1	1	0	0	0
0	1	W	-	-	-	-	OVP
			0	0	0	0	0
1	0	W	-	-	-	LED2OFF LED1OFF	
			0	0	0	0	0

Upper column : Register name Lower column : Default value