



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



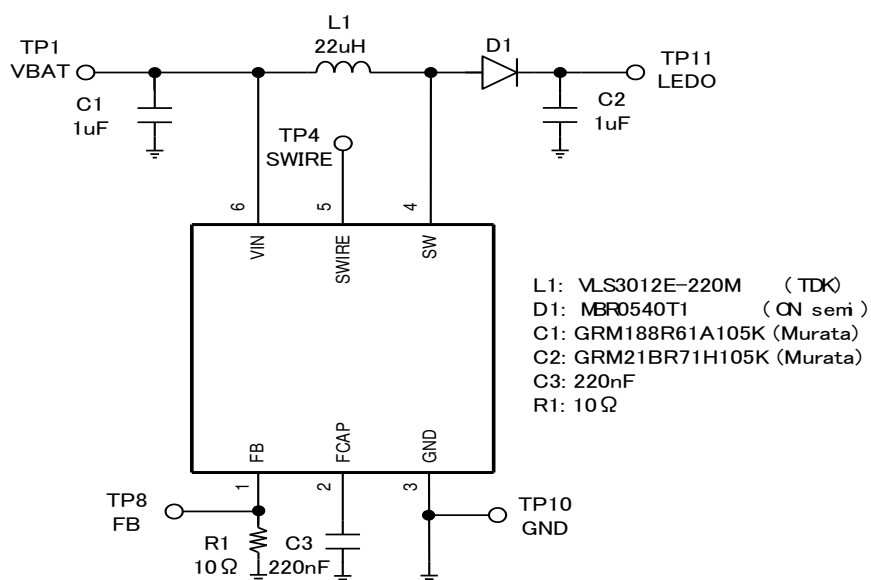


## Test Procedure for the LV52204MUGEVB Evaluation Board

### 1. Evaluation Board Spec

Evaluation Board	2.7~5.5V
FB voltage	0~200mV
Over Voltage Protection	38V
Oscillation Frequency	600kHz

### 2. Evaluation Board Schematic



### 3. Pin Function

PIN #	Pin Name	Description
1	FB	Feedback pin.
2	FCAP	Filtering capacitor terminal for PWM mode.
3	GND	Ground
4	SW	Switch pin. Drain of the internal power FET.
5	SWIRE	1-wire dimming control and PWM dimming input(active High).
6	VCC	Supply voltage.
	Expose-pad	Connect to GND on PCB.



#### 4. Start/Shutdown sequences

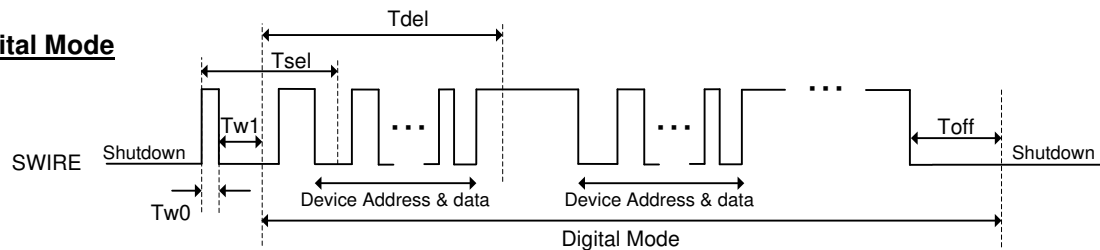
1. Please input "High" into SWIRE PIN during the period that is longer than  $T_{on}(20\mu\text{Sec})$  to start IC.
2. Then, please select a mode during mode select period( $T_{sel}$ ). When you select Digital Mode, please input "Low" longer than  $T_{w1}$  after "High" longer than  $T_{w0}(100\mu\text{Sec})$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

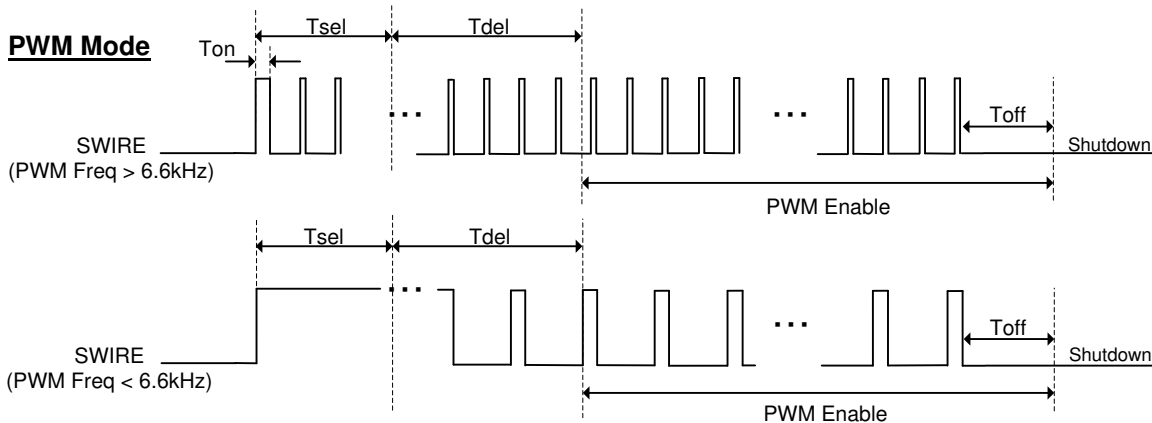
3. IC shut down when you make SWIRE PIN Low longer than  $T_{off}(8.9\text{ms})$  period.

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.

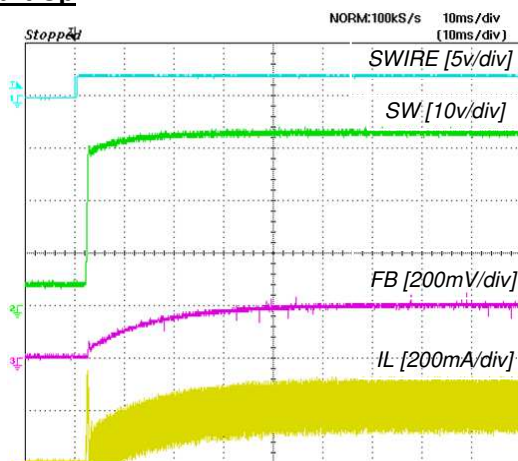
##### Digital Mode



##### PWM Mode



##### Start Up



##### Shut down

