

Technical inquiry DC/DC Converter LMZM23600V3SILR

I took the waveforms of normal-operation and Abnormal-operation.

Normal	Refer to figure.1	
Abnormal	Refer to figure.2	
Abnormal2	Refer to figure.3	
Condition	Vin: 6Vdc	Output: 3.3V
	Load: nearly zero	
Mode	PFM mode (MODE=0V)	
Point	Refer to below	
Consumption	figure.1	3.5mA
	figure.1	7mA
	figure.1	42mA

Inquiry

- Q1 Is Figure.2 normal or faulty ?
- Q2 Where is the broken part ?
I think the built-in inductor is in short mode.
- Q3 Can you predict the cause of the failure ?
If the inductor is in short mode, I think it is due to overheating, not overcurrent.

Please, best regards.

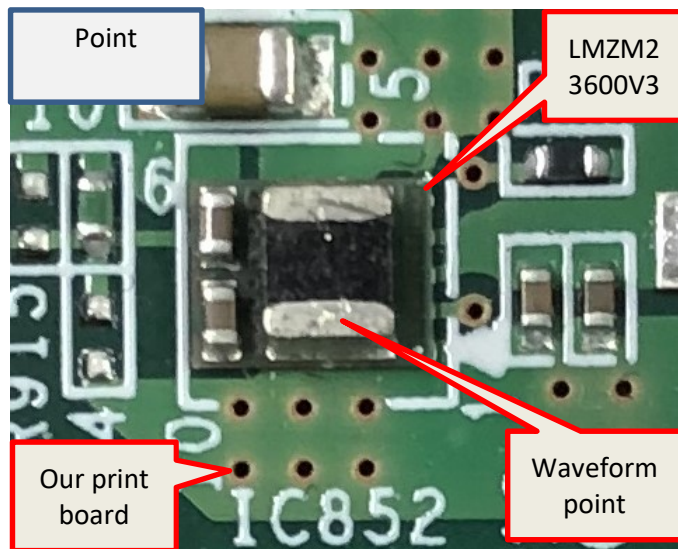


Figure. 1
Normal

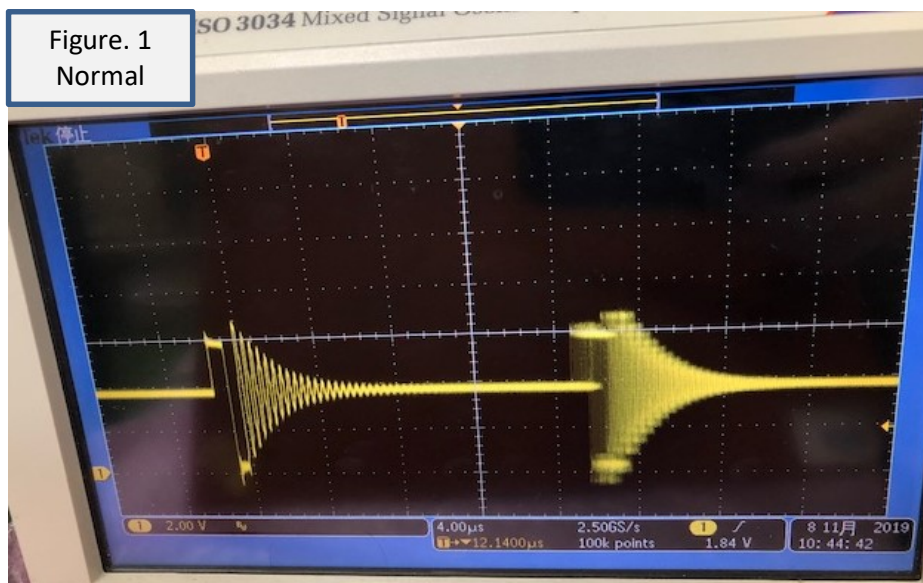


Figure. 2
Abnormal



Figure. 3
Abnormal2



