

Tchnical 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

Condition Vin: 6Vdc Output: 3.3V
Load: nearly zero
Mode PFM mode (MODE=0V)
Point Refer to below

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



