

Part Number: SPX5205

Date: Sept14, 2006

Question:

Our customer received samples of SPX5205. According to the ordering information on datasheet, the top mark should be H1WW but the mark on samples is 1H117. Please would you help to confirm which one is correct?

Answer:

Note that for top markings on small packages, when the bar is added to indicate lead-free parts, it can be mistaken as a "1" or an "l".

Question:

Is this part similar to your SP6203 CMOS part in the above regard? Or, is it like a conventional regulator (LM7805) where the excess voltage turns into heat?

Answer:

All LDOs will transfer much of their energy to heat. To minimize this temperature rise keep the input to output voltage difference slightly above dropout voltage. The SPX5250 data sheet contains a graph of ground current vs load current for your review.

Also we suggest that you download the Thermal Considerations application note which includes a few example calculations:

<http://www.sipex.com/files/ApplicationNotes/LDOThermal.pdf>

The Linear Regulator Heat Calculator could also prove helpful:

<http://www.sipex.com/files/ApplicationNotes/ThermalCalculator.xls>

Customer bench testing is strongly recommended using intended application circuit to ensure proper operation.