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Thread ID: 1275709

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Thread Status (Internal only)

Waiting for Customer ▼

Priority

Normal ▼

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qjwang@ti.com

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Notes:

Hi QJ,
Do you have any knowledge on how ICC derated formula derived?

Submit   Click "Submit" button to save any changes above.

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TMS5703135: maximum ICC derating formula

HS FAE Germany
139.187.34.35

Mastermind 30265 points
⛯ Texas Instruments

Part Number: TMS5703135
Other Parts Discussed in Thread: TMS570LC4357, RM57L843

. Hi,
the d/s listed for ICC (PBIST mode) max 700mA. There is a note that you can derate this max ICC with a lower TJ
with following formula:
235 - 0.15 e0.0174 TJK

I do not know how to use this formula. Why 235 not 700mA?

Regards, Holger

5 months ago

jagadish gundavarapu *139.187.34.34* *5 months ago*   TI__Mastermind 35695 points

Hi Holger,

We started working on your issue and will try to provide an update ASAP.

--

Thanks & regards,
Jagadish.

HS FAE Germany *139.187.34.34* *5 months ago* in reply to *jagadish gundavarapu*   TI__Mastermind 30265 points

any feedback?

jagadish gundavarapu *139.187.34.35* *5 months ago* in reply to *HS FAE Germany*   TI__Mastermind 35695 points

Hi Holger,

As per my understanding the formula is not wrong and it should be 235.

I am confirming this from other Hercules devices.

I verified in other datasheets TMS570LC4357 and RM57L843

.   As you can see here also, they are not using Max current. so, it should not be a typo. But i don't have any document or knowledge on how this formula derived.

--

Thanks & regards,
Jagadish.

HS FAE Germany *139.187.34.34* *5 months ago* *in reply to jagadish gundavarapu* TI__Mastermind 30265 points
Hi Jagadish,
so any clue how to use this formula to get the derived current? Or customer has to use the max current for choosing his LDO?

Regards, Holger

jagadish gundavarapu *139.187.34.35* *5 months ago* *in reply to HS FAE Germany* TI__Mastermind 35695 points

HS FAE Germany said:

so any clue how to use this formula to get the derived current? Or customer has to use the max current for choosing his LDO?

I don't have any clue on how this formula derived.

I will ask QJ, who is expert in Hercules devices.

QJ Wang *139.187.34.34* *5 months ago* *in reply to jagadish gundavarapu* TI__Guru**** 184936 points
Hi Holger,

I replied the email to you and our customer this morning. As mentioned in the email, I have scheduled a meeting with one of our design guy to review the number. Let us discuss it offline.

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