

FORD LDM Localization - 功能 #2567

功能 # 2519 (已关闭): Ford_SYSR: System Requirement

Ford_SYSR : FS_REQ0047_V1 LED Thermal Derating

2024-10-24 18:45 - 玉洁 金

状态:	已关闭	开始日期:	2024-11-01
优先级:	普通	计划完成日期:	2024-11-07
指派给:	涛 陆	% 完成:	100%
类别:		预期时间:	0.00 小时
目标版本:	H003_SW0007169.A001.8	耗时:	0.00 小时
描述 The LDM shall control the LED junction temperature by controlling the current to the LED via peak current derating. If the current derating is not enough, additional PWM derating should be applied. NOTE: The minimum peak current value should refer to buck output accuracy.			
子任务: 功能 # 2753: Ford_SWER_0047_0001 : LED Thermal Derating Peak Curre... 已关闭 功能 # 2994: Ford_SWER_0047_0002 : LED Thermal Derating Peak Curre... 已关闭			

历史记录

#1 - 2024-10-25 10:00 - 涛 陆

完成

#2 - 2024-10-25 10:59 - 盛炜 朱

- 文件 clipboard-202410251051-5zxoq.png 已添加

4	[FS_REQ0058_V1 LED Thermal Derating] The LDM shall control the LED junction temperature by controlling the current to the LED via peak current derating. If the current derating is not enough, additional PWM derating should be applied. TI, LB, and HB shall be PWM controlled. LDM可以控制“峰值电流”来控制LED的结温。如果电流降功率还不够，则使用PWM降功率。TI, LB, HB都应该用PWM控制。 这段话的意思是不是降功率的时候先降电流值,如果电流值达不到,再开始用PWM调光? 然后TI/LB/HB都只能用PWM调光?	Propose to use this method firstly, up to BUCK current accuracy
---	--	---

客户解答LED降功率优先降电流,在保证电流精度的最小电流值后调PWM,需要结合硬件实际情况来定具体电流值。

#3 - 2024-10-25 12:43 - 盛炜 朱

- 文件 clipboard-202410251243-cdazp.png 已添加

73	-2024.9.6 764项目 TI LED 电流最小档位135mA, 但是LDM输出通道最小电流150mA, 那低于150mA是降BUCK输出电流还是做PWM调光以达到135mA	-2024.9.9: Yes, good point that I missed. 1. So Dataset shouldn't limit setting current value for each bin to 500/150 mA minimum, 500/150mA is to ensure buck channel output current accuracy(Shall based on Hardware test result if within 8%), shall not affect actual bin current usage 2. So below 150mA, shall use PWM dimming.
----	---	--

客户已明确规定150mA以下才能调PWM

#4 - 2024-11-19 10:43 - 斌 徐

- 状态 从 新建 变更为 已关闭

文件

clipboard-202410251051-5zxoq.png	59 KB	2024-10-25	盛炜 朱
clipboard-202410251243-cdazp.png	49.6 KB	2024-10-25	盛炜 朱