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ROHM SEMICONDUCTOR

Electronics for the Future

REF66011 –参考设计
高电压PTC加热器

Designed by

intron 英恒

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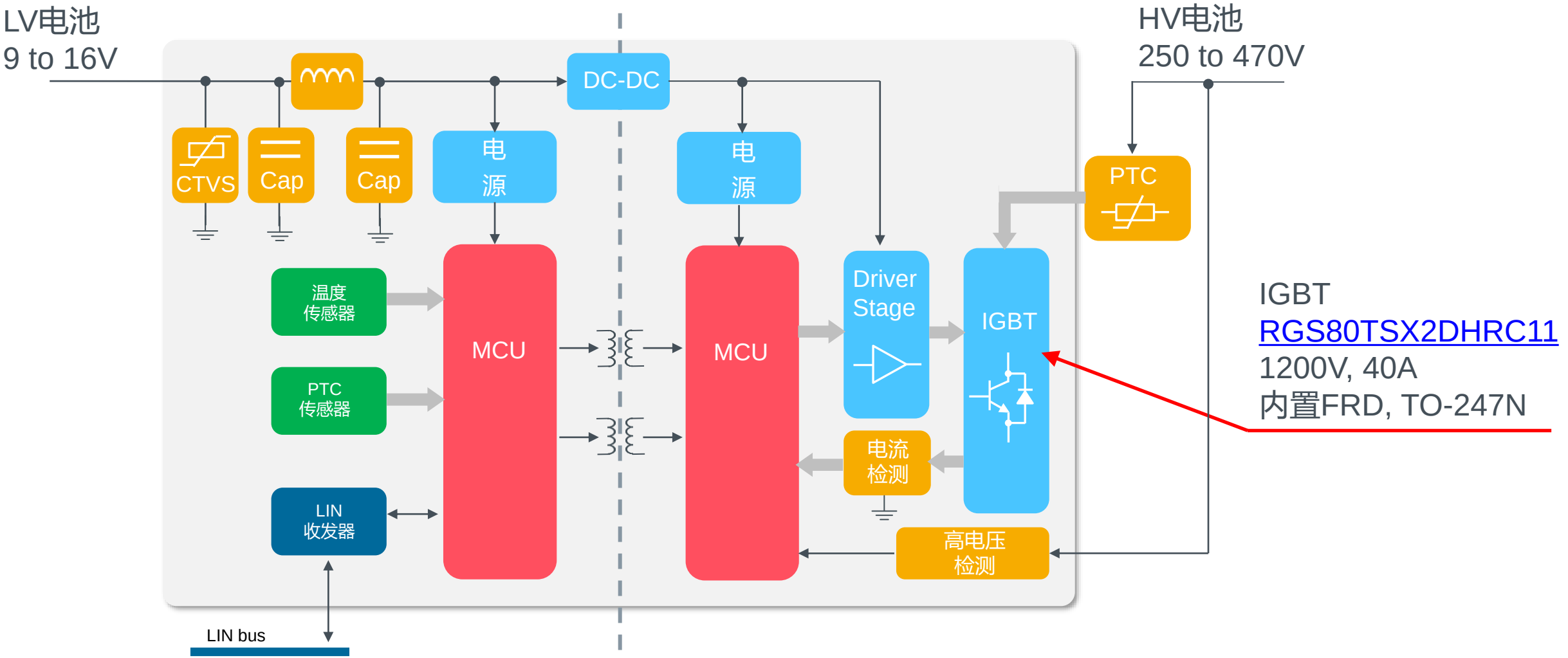
框图


LV电池
9 to 16V
HV电池
250 to 470V
DC-DC
CTVS
Cap
Cap
电源
电源
PTC
温度传感器
PTC传感器
LIN收发器
MCU
MCU
Driver Stage
IGBT
电流检测
高电压检测
LIN bus
IGBT
RGS80TSX2DHRC11
1200V, 40A
内置FRD, TO-247N

REF66011 高电压PTC加热器

Designed by intron 英恒 ROHM SEMICONDUCTOR

简介

在不会产生发动机余热的电动汽车中，通过使用PTC加热器作为制热的热源，可以使温度快速达到适宜温度，从而可以提高行驶稳定性并瞬间获得车内舒适性。另外，该参考设计还可用作高压电池的安全放电电路。该参考设计使用1200V耐压40A的IGBT（RGS80TSX2DHR）来开/关PTC元件。

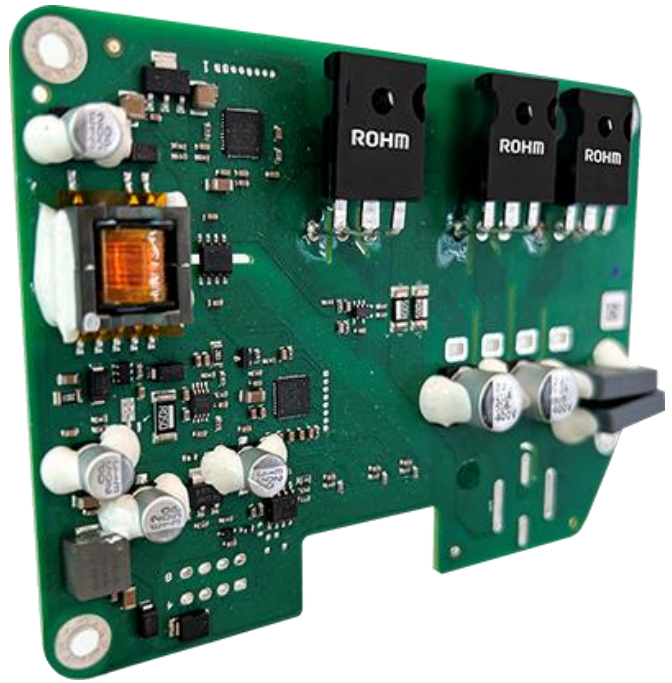
应用

车载高电压PTC加热器

规格

项目	参数
等级	车载
输入电压（低电压侧）	9V to 16V
输入电压（高电压侧）	250V to 470V
输出功率	7kW
参考板尺寸	120mm * 90mm

参考板外观



详细信息（跳转至中国INTRON公司网站）

https://www.intron-tech.com/en/index.php

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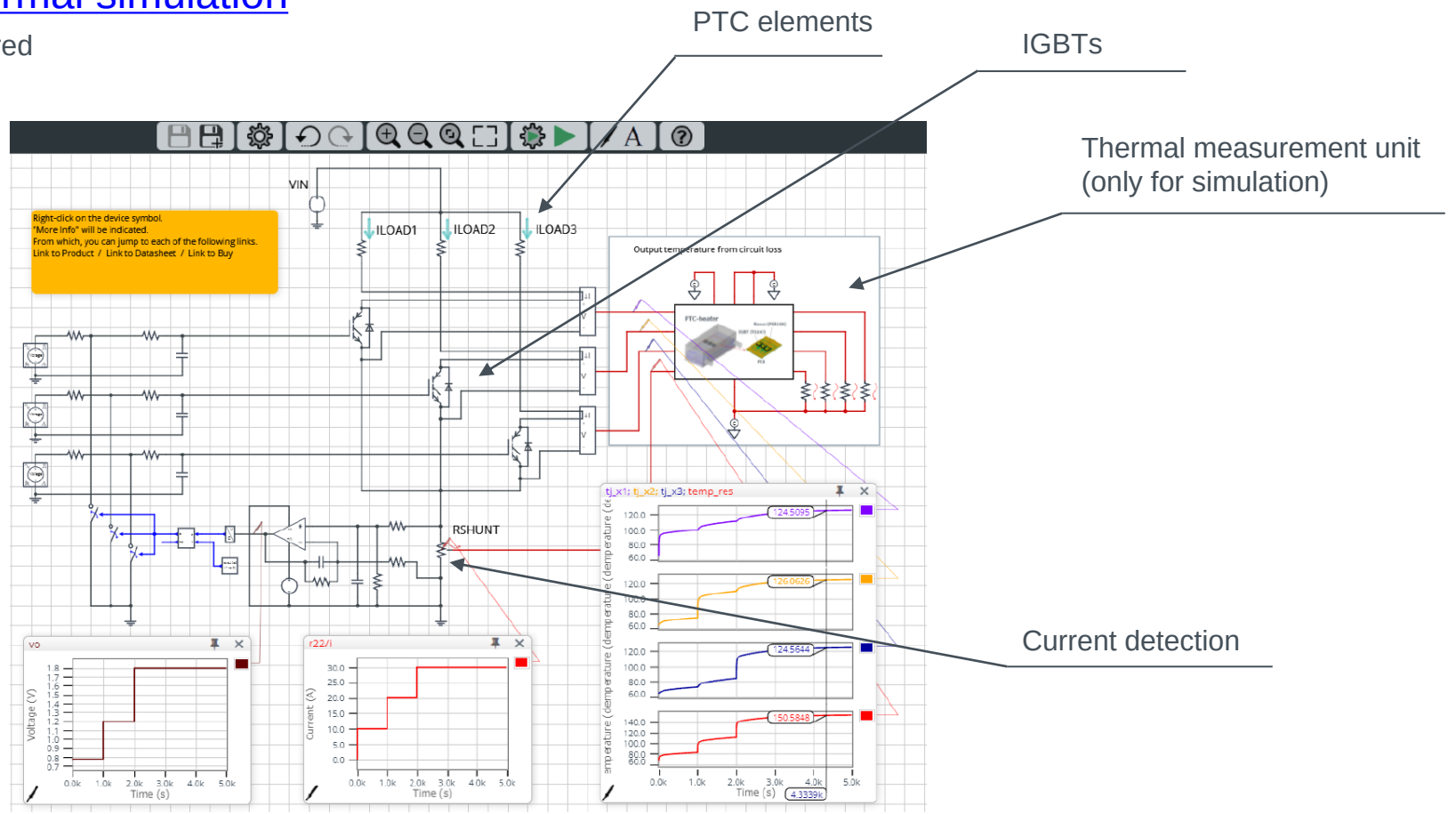
相关模拟

[PTC Heater thermal simulation]

*MY ROHM login required



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