

Thermal Test Report



CoolBlock® SQ-01-2x2MX + CEZOS Q0-073073-740-C1000-K143A Osram Duris P10 GW P7STA1.PM

- Measurement of the temperature rise and case temperature of 4 pcs Osram Duris P10 GW P7STA1.PM emitters on the Cezos 2X2MX platform.
- Under various driving currents 700mA and 1000mA.



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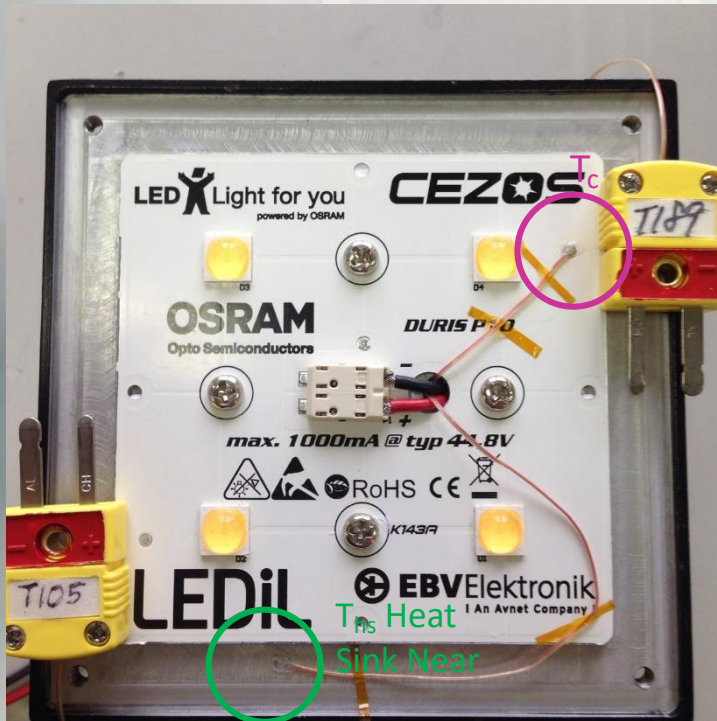
MechaTronix

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• Test Setup



Locations of T_c and T_{hs} Heat Sink Near

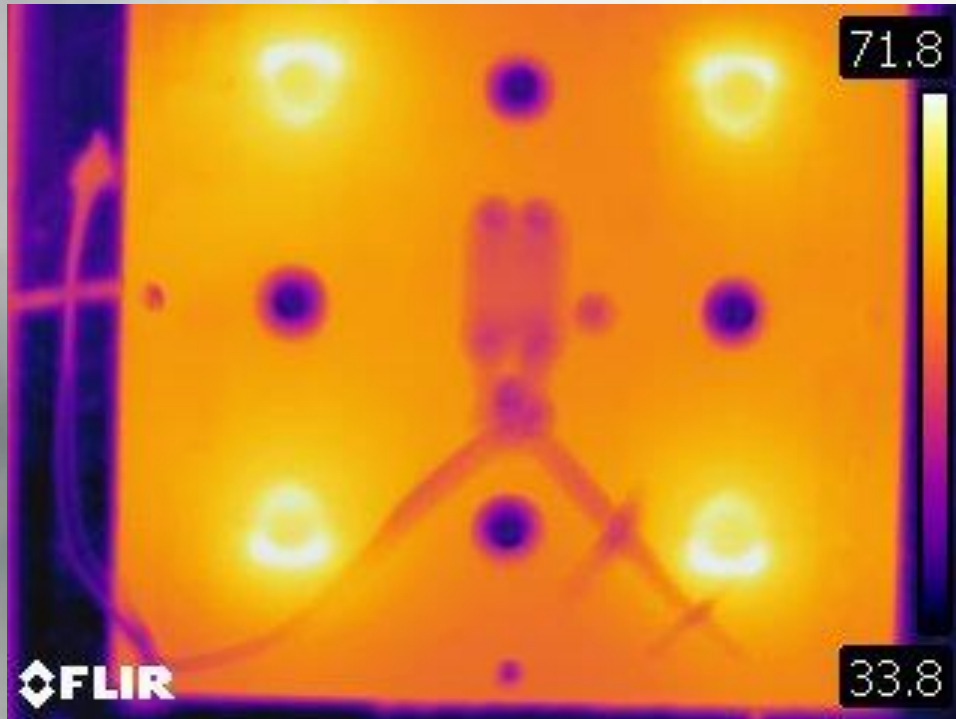


Test Set-up

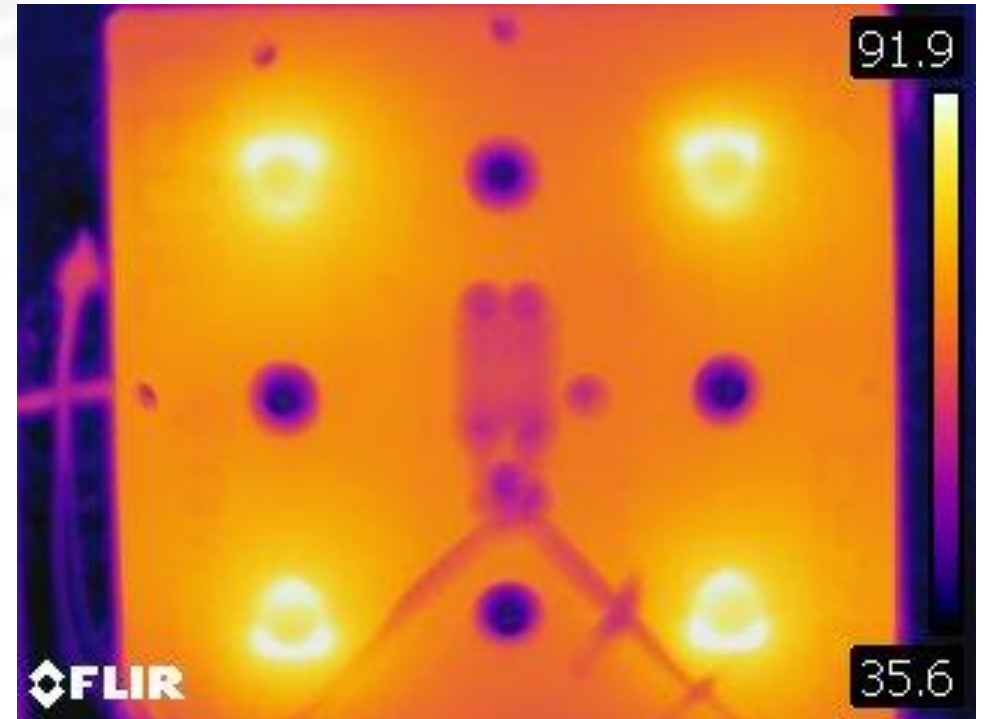
- Heat sink:
CoolBlock® SQ-01-2x2MX
- LED package:
CEZOS Q0-073073-740-C1000-K143A
- Thermal pad:
Laird Tgrease 1500
- If (mA):
700 / 1000

• IR Images

Photo by Infrared Camera
Model: FLIR-T62101



If: 700mA



If: 1000mA

Results Table

If (mA)	Vf (V)	P (W)	Stablization Time (Sec)	T _c (°C)	T _{hs} (°C)	T _{ambient} (°C)	ΔT_{hs-amb} heat sink rise temperature (°C)
700	46.48	32.54	7460	61.01	57.54	28.07	32.94
1000	47.82	47.82	17550	75.71	69.93	27.34	48.37

Temperature Rise Curves

