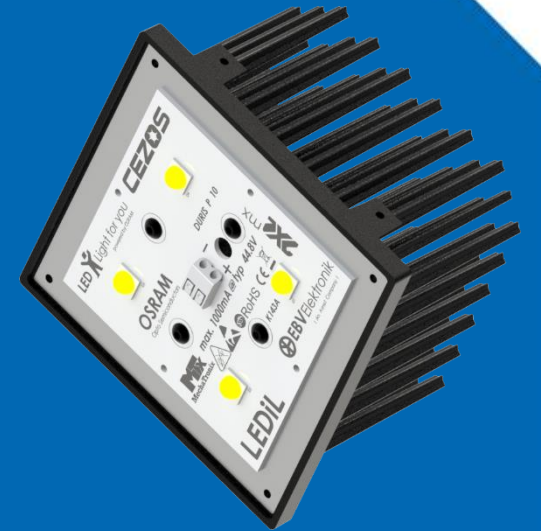


Thermal Test Report



CoolBlock[®] SQ-01-2x2MX + CEZOS Q0-073073-740-C1000-K143A (Al Oxide) 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 (Al Oxide) 2X2MX platform.
- Under various driving currents 700mA and 1000mA.



Date: 2016.07.04
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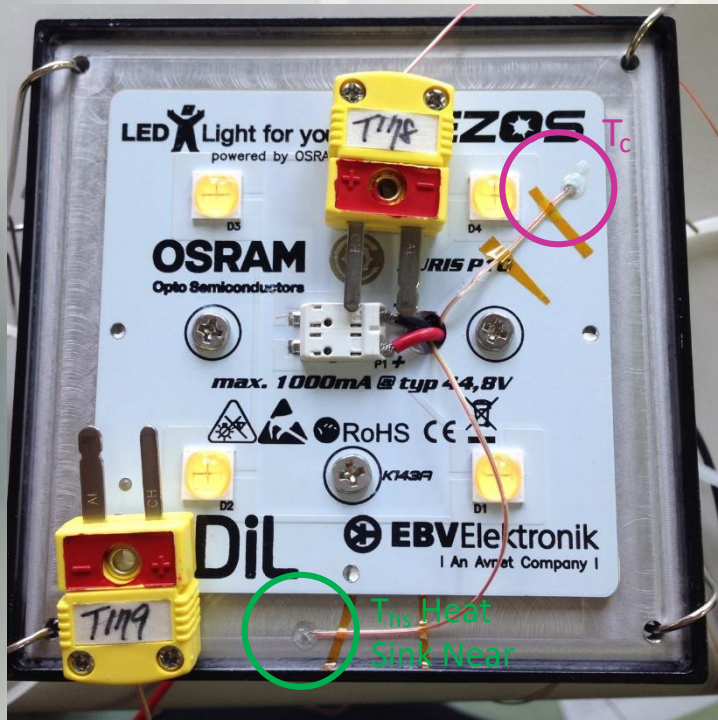
MechaTronix

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No.818, Dashun 2nd Rd., Sanmin Dist., Kaohsiung City 80787, Taiwan

• Test Setup



Locations of T_c and T_{hs} Heat Sink Near

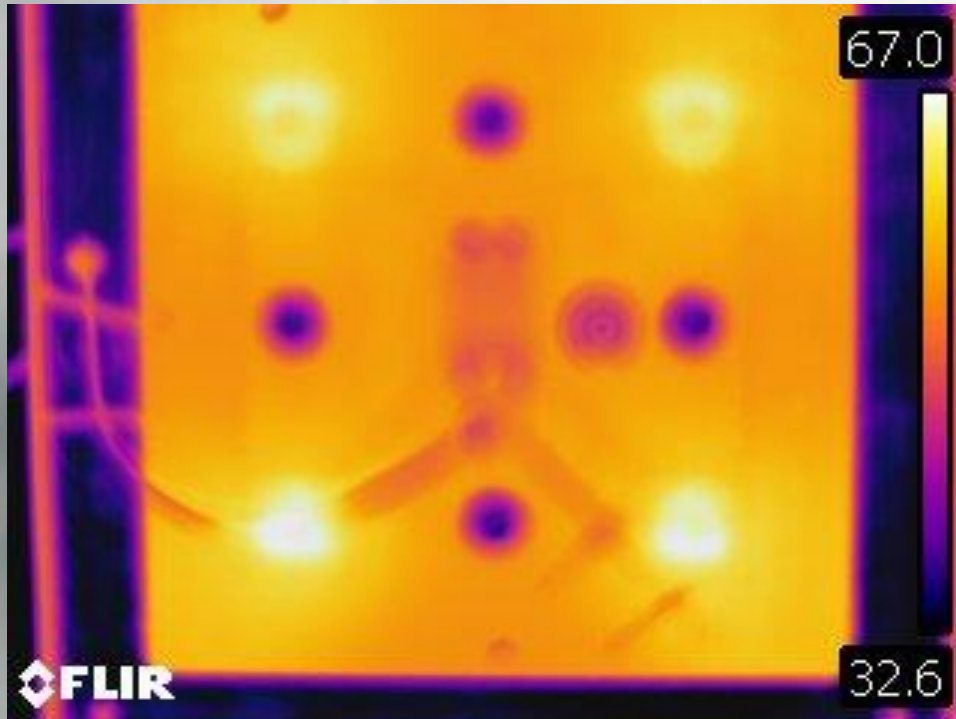


Test Set-up

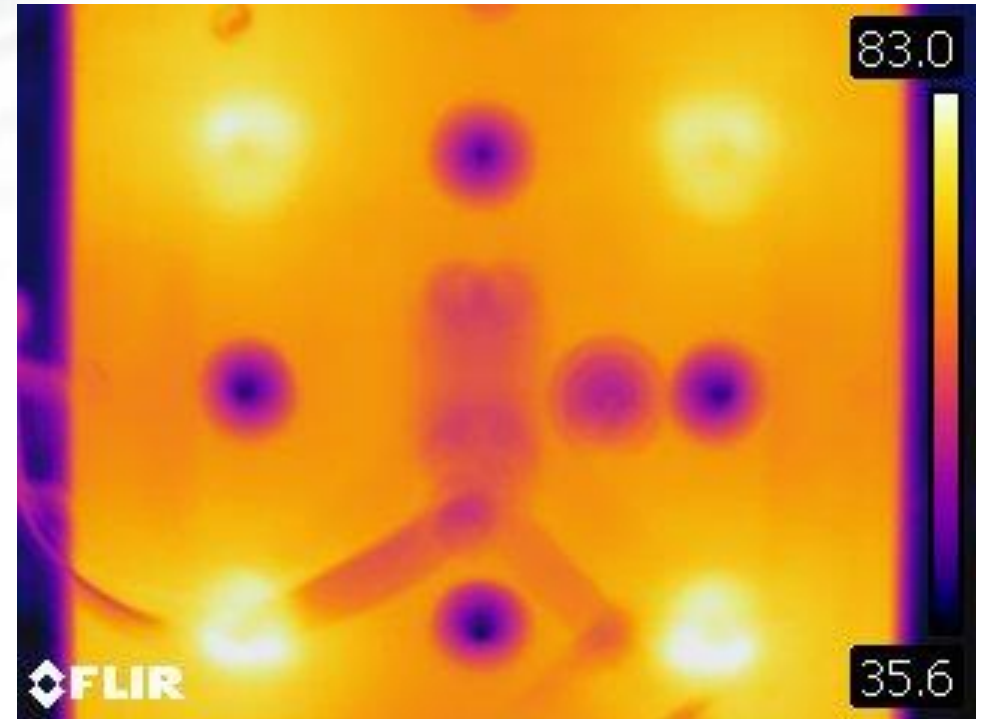
- Heat sink:
CoolBlock® SQ-01-2x2MX
- LED package:
CEZOS Q0-073073-740-C1000-K143A(Al Oxide)
- Thermal pad:
Laird Tgrease 1500
- If (mA):
700 / 1000

• 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	46.18	32.33	7460	59.23	55.85	27.65	31.58
1000	47.55	47.55	17550	73.14	67.54	26.93	46.21

Temperature Rise Curves

