

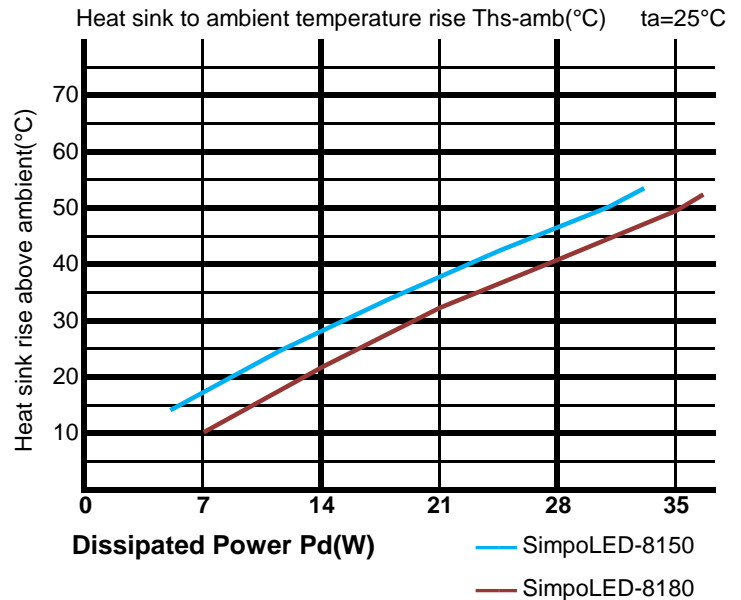


SimpoleD SimpoleD-81 Series $\Phi 81\text{mm}$ Material AL6063-T5 COB Star Heat Sinks Thermal Data

The thermal data table

SimpoleD-81 thermal data

Dissipated Power Pd(W)	Heat sink to ambient temperature rise Ths-amb (°C)	
	SimpoleD-8150	SimpoleD-8180
6	15.6	10
12	26.2	15
18	36	30.5
24	46.8	37.2
30	51.8	46.2
35		54.3



* Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.

*To calculate the dissipated power please use the following formula: $P_d = P_e \times (1 - \eta_L)$.

Pd - Dissipated power ; Pe - Electrical power ; η_L = Light efficiency of the LED module;

*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).

MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.

Either thermal grease, A thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended.

