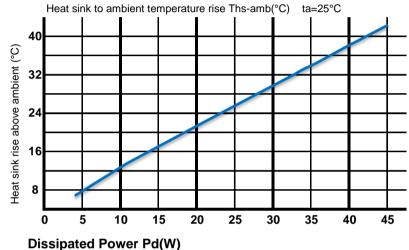


The thermal data table

Pd=Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb(°C/W)	Heat sink to ambient temperature rise Ths-amb(°C)
		Eden-6001E	
Dissipated Power Pd(W)	5	1.20	7
	15	0.93	17
	20	0.85	21
	30	0.80	30
	35	0.77	34
	40	0.75	38
	45	0.73	42



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

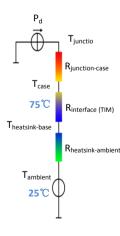
*To calculate the dissipated power please use the following formula: $Pd = Pe x (I - \eta L)$.

Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency 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. I-0. I 5mm is recommended.



*Thermal resistance is a heat property and a measurement of a temperature difference by which an object or material resists a heat flow. Geometric shapes are different, the thermal resistance is different. Formula: $\theta = (Ths - Ta)/Pd$ θ - Thermal Resistance [°C/W]; Ths - Heatsink temperature; Ta - Ambient temperature; *The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the package outer shell is R_{junction-case}, the thermal resistance of the TIM outside the package is R_{interface (TIM)} [°C/W], the thermal resistance with the heat sink is R_{heatsink-ambient} [°C/W], and the ambient temperature is T_{ambient} [°C]. *Thermal resistances outside the package R_{interface (TIM)} and R_{heatsink-ambient} can be integrated into the thermal resistance R_{case-ambient} at this point.Thus, the following formula is also used: T_{junction} = (R_{junction-case} + R_{case-ambient})·Pd+T_{ambient}

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