



**GooLED**

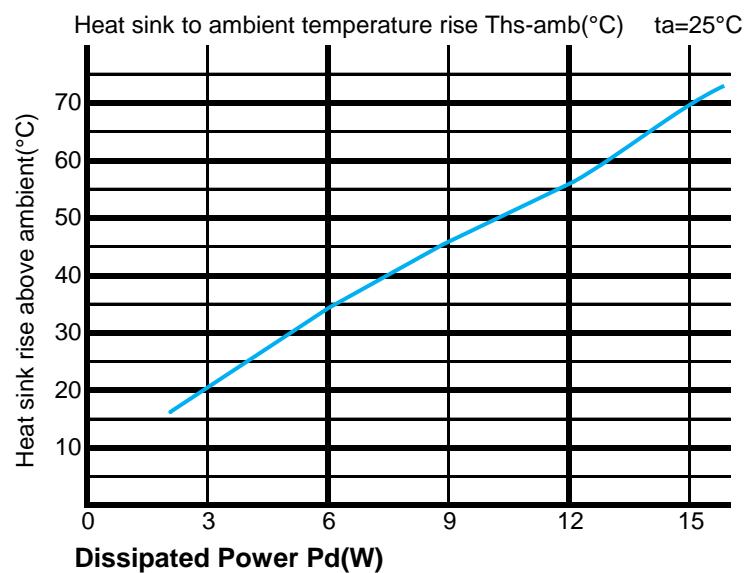
**GooLED-58 Series  $\Phi 58\text{mm}$  Material AL1070 Pin Fin Heat Sinks Thermal Data**

### The thermal data table



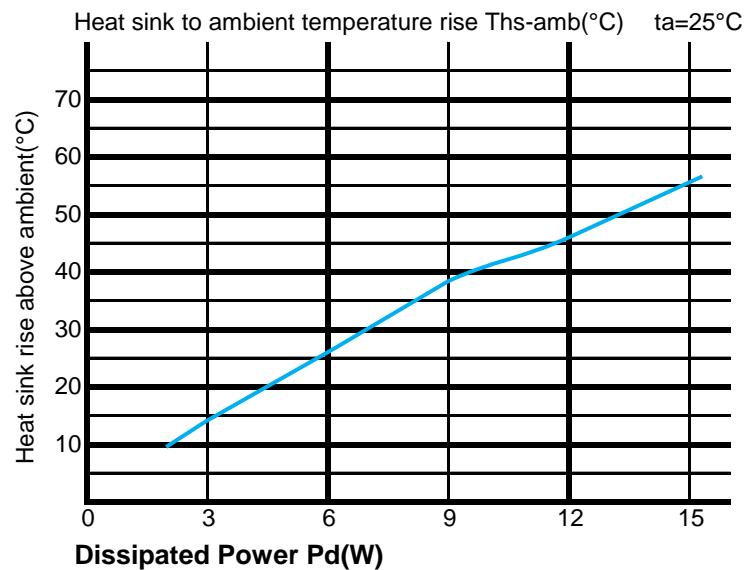
#### GooLED-5830 thermal data

Dissipated Power $P_d(\text{W})$	$P_d = Pe \times (1-\eta L)$	
	Heat sink to ambient thermal resistance $R_{hs-amb}$ ( $^{\circ}\text{C/W}$ )	Heat sink to ambient temperature rise $Ths-amb$ ( $^{\circ}\text{C}$ )
GooLED-5830	GooLED-5830	
3	6.67	20
6	5.83	35
9	5.11	46
12	4.75	57
15	4.67	70



#### GooLED-5850 thermal data

Dissipated Power $P_d(\text{W})$	$P_d = Pe \times (1-\eta L)$	
	Heat sink to ambient thermal resistance $R_{hs-amb}$ ( $^{\circ}\text{C/W}$ )	Heat sink to ambient temperature rise $Ths-amb$ ( $^{\circ}\text{C}$ )
GooLED-5850	GooLED-5850	
3	5	15
6	4.67	26
9	4.33	39
12	4	46
15	3.8	57





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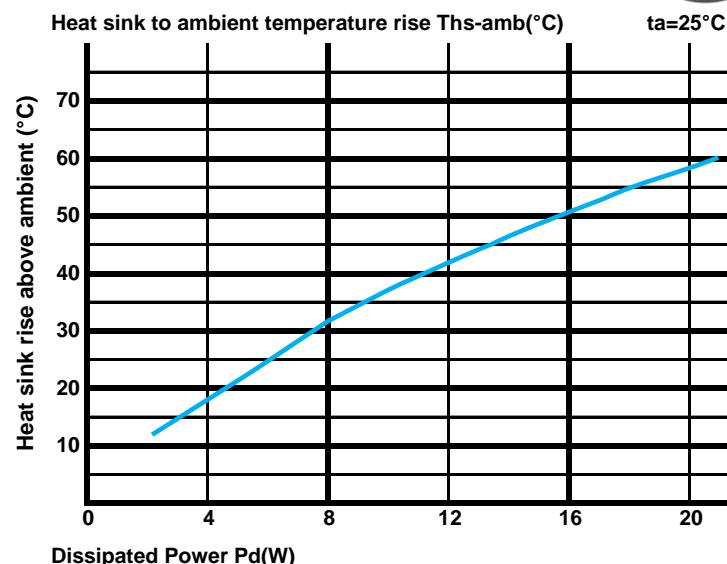
## GooLED-58 Series $\Phi 58\text{mm}$ Material AL1070 Pin Fin Heat Sinks Thermal Data

### The thermal data table



**GooLED-5880 thermal data**

Dissipated Power $P_d(\text{W})$	Heat sink to ambient thermal resistance $R_{hs\text{-amb}}$ ( $^{\circ}\text{C/W}$ )	Heat sink to ambient temperature rise $\Delta T_{hs\text{-amb}}$ ( $^{\circ}\text{C}$ )
	GooLED-5880	GooLED-5880
4.0	4.75	19.0
8.0	4.00	32.0
10.0	4.20	42.0
16.0	3.19	51.0
20.0	2.95	59.0



\* Please be aware the dissipated power  $P_d$  is not the same as the electrical power  $P_e$  of a LED module.

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

$P_d$  - Dissipated power ;  $P_e$  - Electrical power ;  $\eta L$  = 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.

