



GooLED

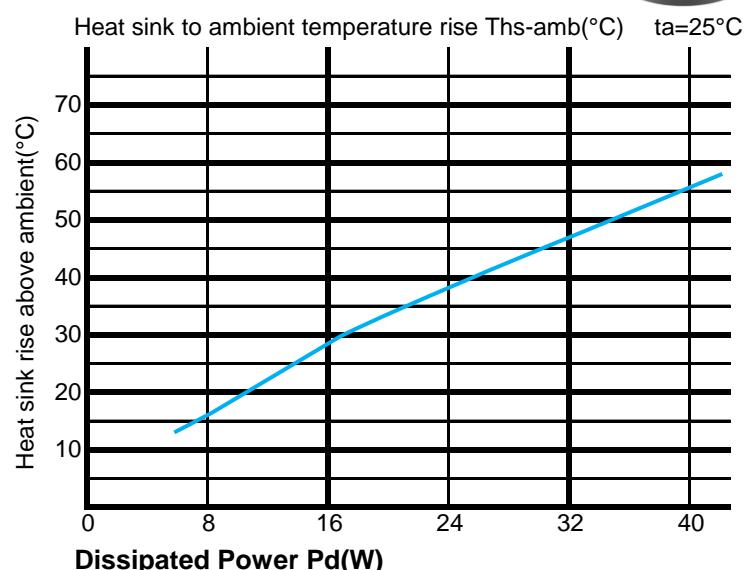
GooLED-110 Series $\Phi 110\text{mm}$ Material AL1070 Pin Fin Heat Sinks Thermal Data

The thermal data table



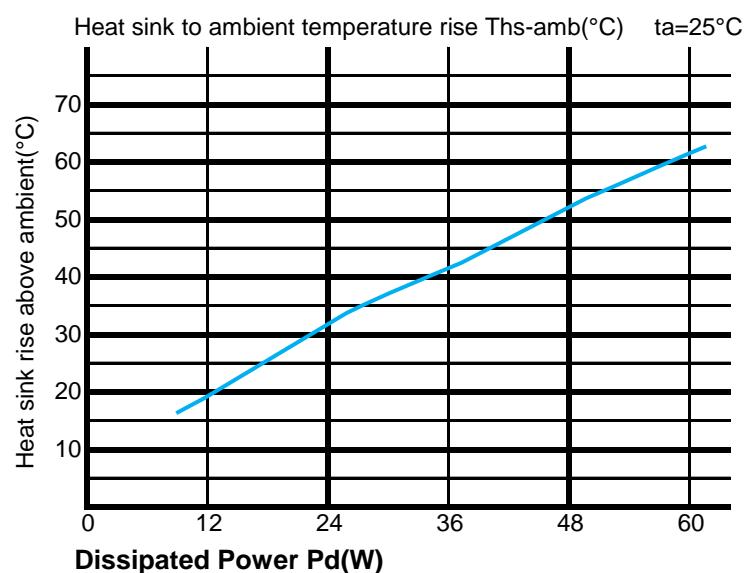
GooLED-11050 thermal data

Dissipated Power $P_d(\text{W})$	Heat sink to ambient thermal resistance Rhs-amb ($^{\circ}\text{C/W}$)		Heat sink to ambient temperature rise Ths-amb ($^{\circ}\text{C}$)
	Pd = Pe x (1- ηL)	GooLED-11050	
8	2.25	16	
16	1.81	29	
24	1.63	39	
32	1.5	48	
40	1.4	56	



GooLED-11080 thermal data

Dissipated Power $P_d(\text{W})$	Heat sink to ambient thermal resistance Rhs-amb ($^{\circ}\text{C/W}$)		Heat sink to ambient temperature rise Ths-amb ($^{\circ}\text{C}$)
	Pd = Pe x (1- ηL)	GooLED-11080	
12	1.67	20	
24	1.36	33	
36	1.17	42	
48	1.1	53	
60	1.03	62	





GooLED

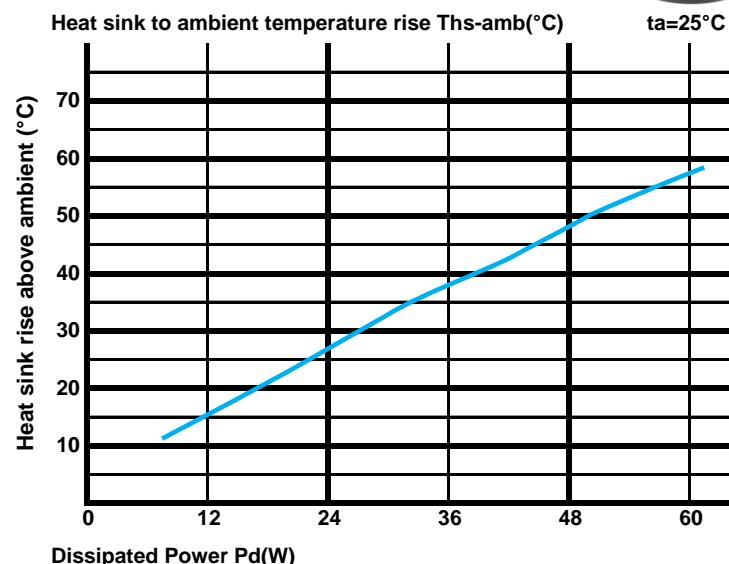
GooLED-110 Series $\Phi 110\text{mm}$ Material AL1070 Pin Fin Heat Sinks Thermal Data

The thermal data table



GooLED-110100 thermal data

Dissipated Power Pd(W)	Pd = Pe x (1-ηL)	Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		GooLED-110100	GooLED-110100
12		1.67	20
24		1.36	33
36		1.17	42
48		1.1	53
60		1.03	62



* 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: $Pd = Pe \times (1-\eta L)$.

Pd - Dissipated power ; Pe - Electrical power ; ηL = 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.

