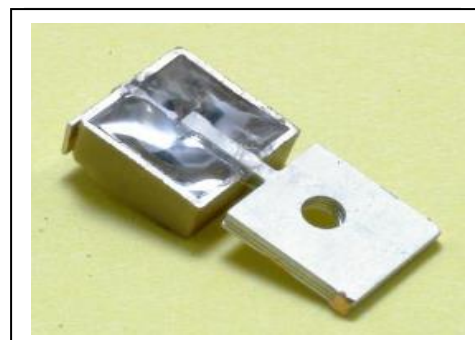


**High-Power REFLECTIVE MIRROR TYPE LED
AOP6-8511HP2**

Infrared LED

◆ Die & Package

Item	Value
Peak wavelength (typ)	850 nm
Die Materials	GaAlAs
Die dimension	1.0 x 1.0 mm
Package	Reflective Mirror type



◆ Absolute Maximum Ratings

Ta = 25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	1500 *1	mW
Forward Current (DC)	I _F	1000 *2	mA
		700 *1	
Pulse Forward Current (**)	I _{FRM}	4 *1*3	A
Reverse Voltage (DC)	V _R	5	V
Operating Temperature	T _{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-30 ~ +95	°C

*1 The rating without heat sink

*2 at heat sink

*3 I_{FRM}: PW(Pulse width) ≤ 100 μ sec, duty ≤ 1/100

◆ Electro-optical Characteristics

at heat sink, Ta=25°C

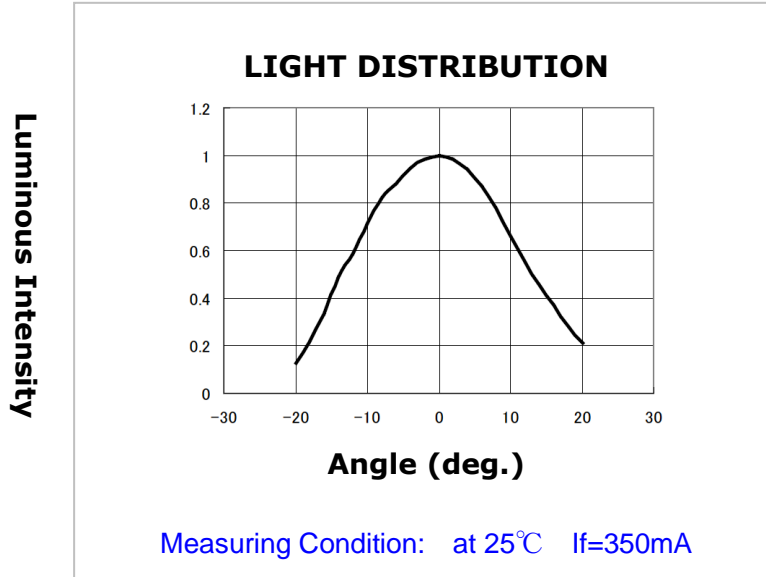
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward Voltage	V _F		1.6		V	I _F = 500mA
Reverse Current	I _R			10	μ A	V _R = 5V
Peak Wavelength	λ _p		850		nm	I _F = 500mA
Spectral Half width	Δλ		40		nm	I _F = 500mA
Total Radiated Power	P _O	140	180	220	mW	I _F = 500mA
Peak Radiant Intensity	I _E	2.0	2.5	3.5	W/sr	I _F = 500mA
			3.7			I _F = 800mA
Viewing Half angle	θ 1/2		± 14		°	I _F = 500mA
Lead Temperature *4	Tr/Tf			60	°C	---

The data is subject to change without notice.

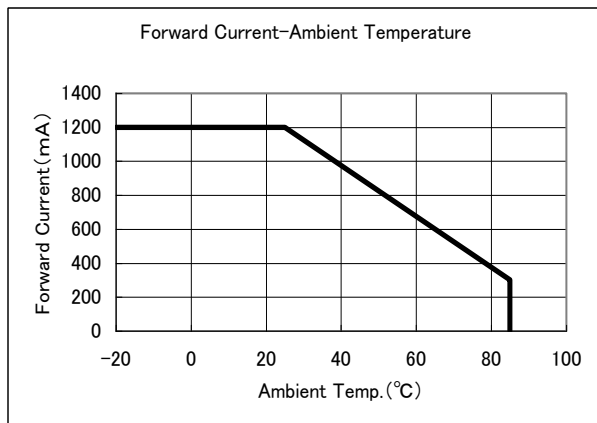
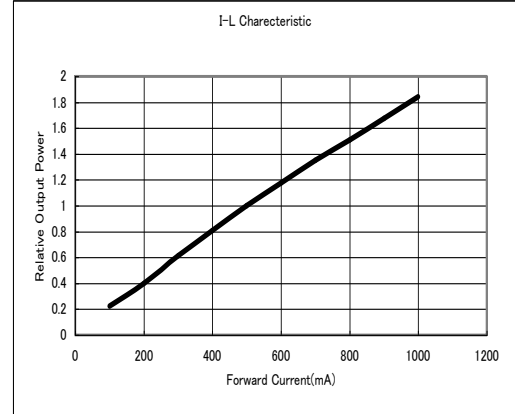
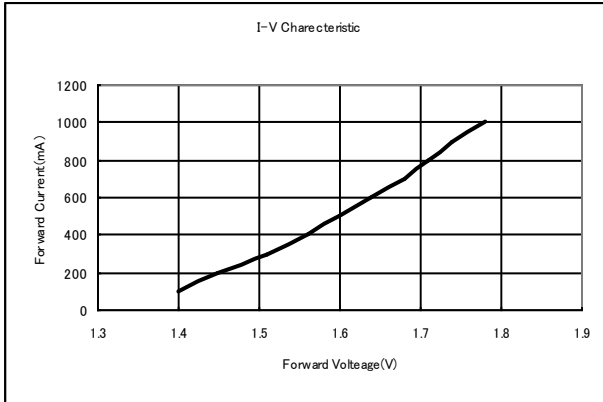
**High-Power REFLECTIVE MIRROR TYPE LED
AOP6-8511HP2**

Infrared LED

◆ **Directional Characteristics (Reference Data)**



Measuring Condition: 25°C With Heat-Sink

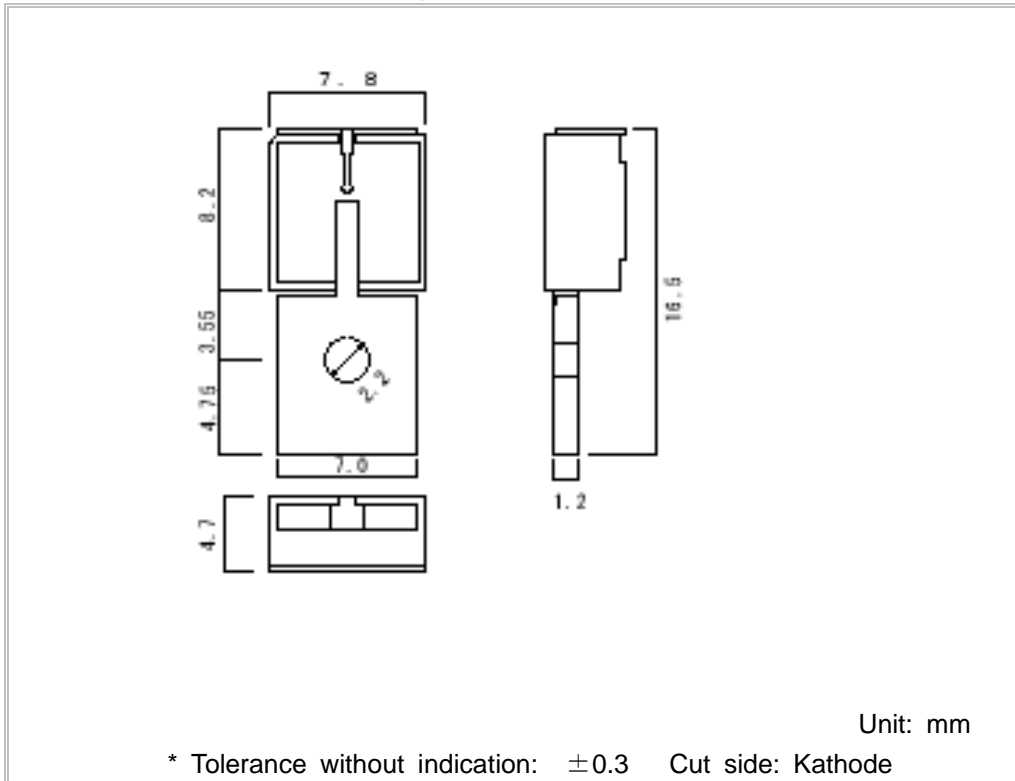


The data is subject to change without notice.

High-Power REFLECTIVE MIRROR TYPE LED
AOP6-8511HP2

Infrared LED

External Condition (Reference Drawing)



◆ **The way to cling to a heat sink**

