

**Metal-Glass can sealed type
Model No. AE679B**

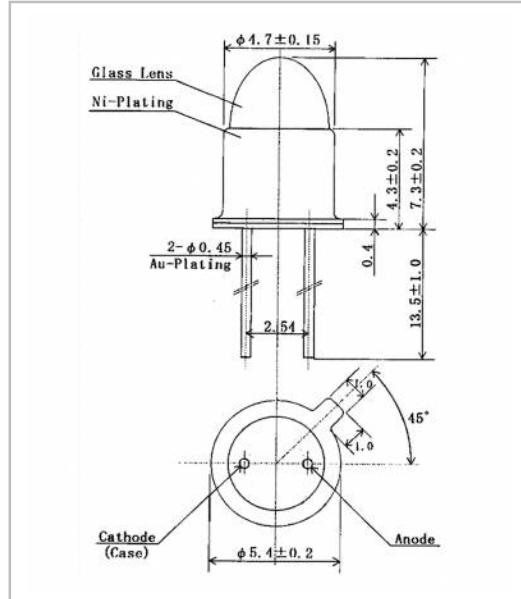
Visible Point source LED

◆ **Features**

- Red Color Point-Source LED
- Emitting Window: dia ϕ 150 μ m
- Parallel Rays (Super Excellent)
- Narrow Beam (Super Excellent)
- Small Temp. Coefficient of PO

◆ **Applications**

- Optical switches
- Linear & Rotary Encoder



Dimensions (unit: mm)

◆ **Absolute Maximum Ratings**

Ta = 25°C

Parameter	Symbol	Value	Unit
Forward Current (DC)	I _F	50	mA
Pulse Forward Current *1	I _{FP}	0.3	A
Reverse Voltage (DC)	V _R	5	V
Power Dissipation	P _D	125	mW
Operating Temperature	T _{opr}	-20 ~ +85	°C
Storage Temperature	T _{stg}	-30 ~ +100	°C
Junction Temperature	T _j	100	°C
Lead Soldering Temperature *2	T _{sol}	260	°C

*1 : Tw=10 μ s, T=10mS *2 : Time 5sec max./ Position up to 3.0mm from the body

◆ **Electro-optical Characteristics**

Ta = 25°C

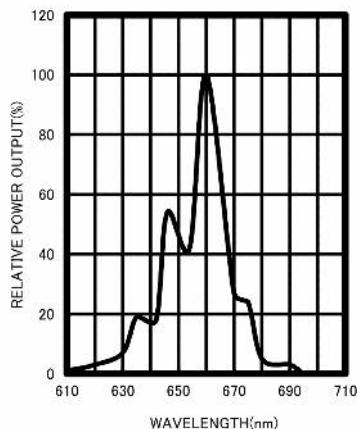
Parameter	Symbol	MIN	TYP	MAX	Unit	Conditions
Power Output	P _O	0.2	0.4	--	mW	I _F = 20mA
Forward Voltage	V _F	--	2.2	2.5	V	I _F = 20mA
Reverse Current	I _R	--	--	10	μ A	V _R = 5V
Peak Wavelength	λ p	630	650	670	nm	I _F = 20mA
Spectral Line Half width	Δ λ		20		nm	I _F = 20mA
Half Intensity Beam Angle	θ		\pm 2.5		deg.	I _F = 20mA
Temp. Coefficient of P _O	P/T		-0.24		%/°C	I _F = 10mA
Temp. Coefficient of V _F	V/T		-3.8		mV/°C	I _F = 10mA

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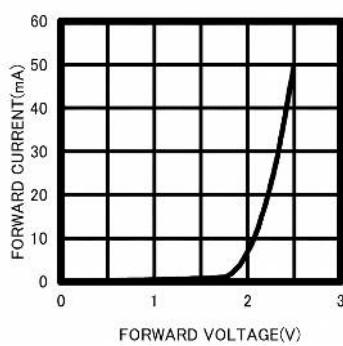
Visible Point source LED

◆ Characteristics Data

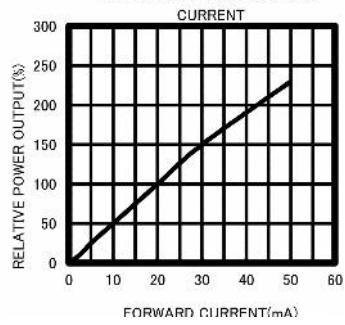
SPECTRAL OUTPUT



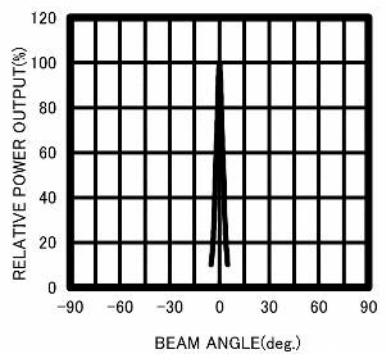
FORWARD I-V CHARACTERISTICS



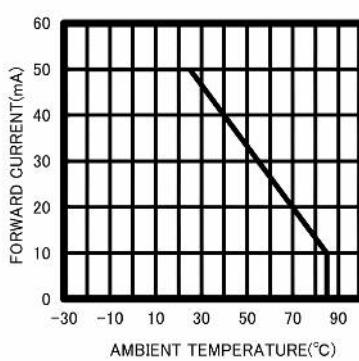
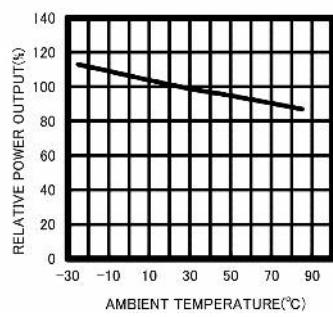
RELATIVE POWER OUTPUT vs FORWARD CURRENT



RADIATION PATTERN



THERMAL DERATING CURVE

POWER OUTPUT vs TEMPERATURE
IF=10mAFORWARD VOLTAGE vs
TEMPERATURE
IF=10mA