Metal-Glass can sealed with Lens type

Model No. AL880MM

Infrared LED

◆ Features

High-output power
High Reliability
Excellent Parallel rays

◆ Applications

Optical switches
Linear & Rotary Encoder

◆ Absolute Maximum Ratings

Ta = 25℃

Parameter	Symbol	Value	Unit
Forward Current (DC)	I_F	100	mA
Pulse Forward Current *1	I_{FP}	1	A
Reverse Voltage (DC)	V_R	5	V
Power Dissipation	P_D	180	mW
Operating Temperature	Topr	-30 ~ +100	℃
Storage Temperature	Tstg	-40 ~ +125	℃
Junction Temperature	Tj	125	℃
Lead Soldering Temperature *2	Tsol	260	℃

*1 : Tw=10 μs, T=10mS

*2 : within 5sec / up to 3.0mm from the body

◆ Electro-optical Characteristics

Ta = 25℃

Parameter	Symbol		Value	Unit	
Radiated Power	P_O	Min	3.0	mW	I_F = 50mA
		Typ	5.0		
Forward Voltage	V_F	Typ	1.45	V	I_F = 50mA
		Max	1.8		
Reverse Current	I_R	Max	10	μA	V_R = 5V
Peak Wavelength	λ_p	Typ	880	nm	I_F = 50mA
Half width	$\Delta\lambda$	Typ	60	nm	I_F = 50mA
Viewing Half Angle	θ 1/2	Typ	±5	deg.	I_F = 50mA
Rise Time	Tr	Typ	1.5	μs	I_{FP} = 50mA
Fall Time	Tf	Typ	0.8	μs	I_{FP} = 50mA
Junction Capacitance	Cj	Typ	15	pF	1MHz, V=0V
Temp. Coefficient of P_O	P/T	Typ	-0.5	%/℃	I_F = 10mA
Temp. Coefficient of V_F	V/T	Typ	-1.5	mV/℃	I_F = 10mA

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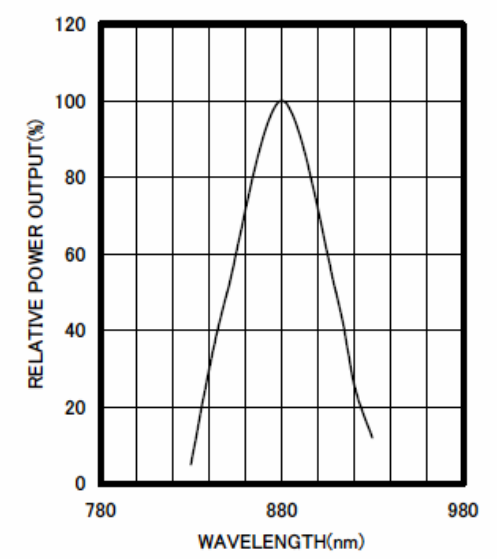
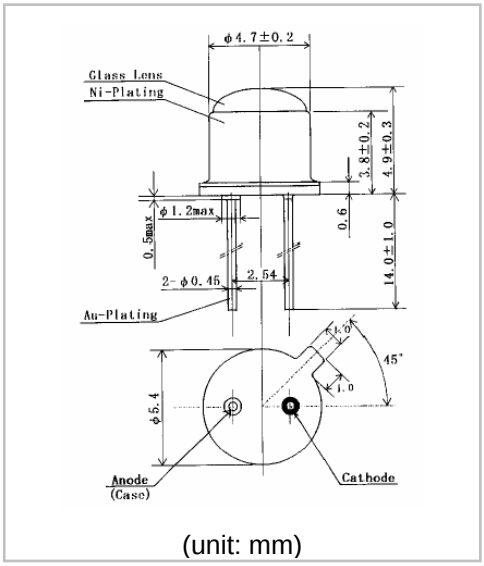
◆ Spectral Output

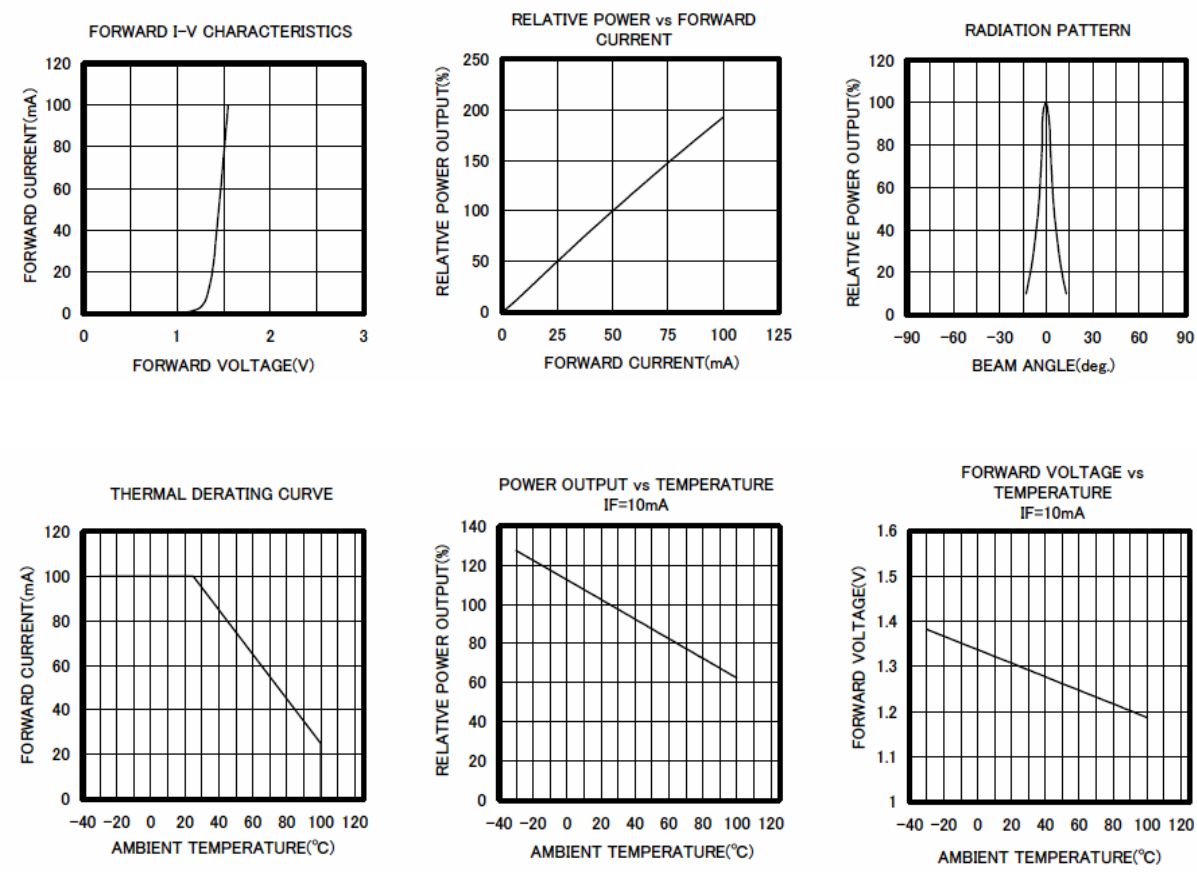


◆ External dimensions



(unit: mm)

◆ Other Characteristics



The data is subject to changed without notice.