

Metal can sealed type (Compact)**Model No. AL880PT**

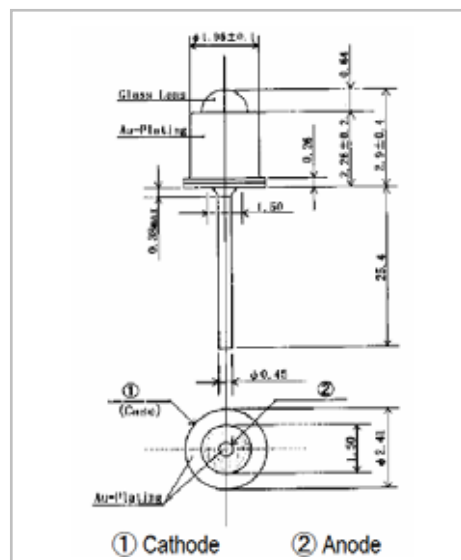
Infrared LED

◆ **Features**

- High Output Power
- Narrow Beam Angle (Excellent)
- Compact size ($\phi 2\text{mm}$)
- High reliability

◆ **Applications**

- Optical switches
- Edge Sensing

◆ **Absolute Maximum Ratings**

Ta = 25°C

Parameter	Symbol	Value	Unit
Forward Current (DC)	I _F	75	mA
Pulse Forward Current *1	I _{FP}	0.5	A
Reverse Voltage (DC)	V _R	5	V
Power Dissipation	P _D	120	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 μs, T=10ms

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

◆ **Electro-optical Characteristics**

Ta = 25°C

Parameter	Symbol		Value	Unit	
Radiated Power	P _O	Typ	2.5	mW	I _F = 50mA
Forward Voltage	V _F	Typ	1.45	V	I _F = 50mA
		Max	1.80		
Reverse Current	I _R	Max	10	μA	V _R = 5V
Peak Wavelength	λ _p	Typ	880	nm	I _F = 50mA
Half width	Δλ	Typ	60	nm	I _F = 50mA
Viewing Half Angle	θ 1/2	Typ	±4	deg.	I _F = 50mA
Response Time	T _R /T _F	Typ	1.5 / 0.8	MHz	I _{FP} = 50mA
Junction Capacitance	C _j	Typ	15	pF	1MHz, V=0V
Temp. Coefficient of P _O	P/T	Typ	-0.5	%/°C	I _F = 10mA
Temp. Coefficient of V _F	V/T	Typ	-1.5	mV/°C	I _F = 10mA