

SMD type

Model No. ALS812SMU

Infrared LED

RoHS compliant

◆ **Absolute Maximum Ratings**

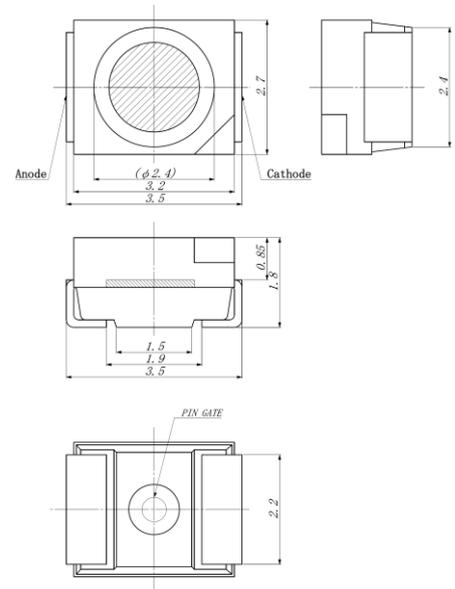
Ta = 25°C

| Parameter | Symbol | Value | Unit |
|--------------------------------------|-----------------|------------|------|
| Forward Current (DC) | I _F | 100 | mA |
| Pulse Forward Current * ¹ | I _{FP} | 0.5 | A |
| Reverse Voltage (DC) | V _R | 5 | V |
| Power Dissipation | P _D | 130 | mW |
| Operating Temperature | Topr | -20 ~ +80 | °C |
| Storage Temperature | Tstg | -30 ~ +100 | °C |

*¹ : Tw=10 μs, T=10ms

*Hand Soldering Temperature 320° within 3sec.

External Dimension(20/1mm)



◆ **Electro-optical Characteristics**

Ta = 25°C

| Parameter | Symbol | | Value | Unit | | |
|-----------------|----------------|----------------|-------|------|-----------------------|-----------------------|
| Radiated Power | P _O | Min | 12.5 | mW | I _F = 50mA | |
| | | Typ | 18.0 | | | |
| Forward Voltage | V _F | Typ | 1.55 | V | I _F = 50mA | |
| | | Max | 1.7 | | | |
| Reverse Current | I _R | Max | 100 | μA | V _R = 5V | |
| Peak Wavelength | λ _p | Typ | 810 | nm | I _F = 50mA | |
| Half width | Δλ | Typ | 35 | nm | I _F = 50mA | |
| Viewing Angle | θ | Typ | ±60 | deg. | I _F = 50mA | |
| Response Time | Rise Time | T _r | Typ | 25 | ns | I _F = 50mA |
| | Fall Time | T _f | Typ | 22 | ns | I _F = 50mA |