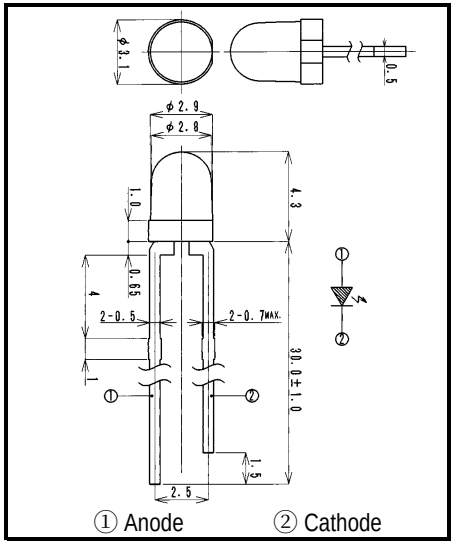
# VSF706C1

## Visible Light Emitting Diode



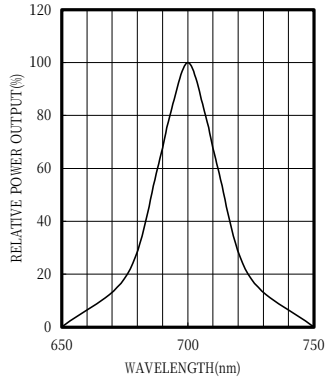



Dimensions (Unit:mm)

FEATURES
- High-output Power
- Compact
- High Reliability

APPLICATIONS
- Optical Switches
- Optical Sensors
- Medical Application

SPECTRAL OUTPUT




1. ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

| I T E M | SYMBOL | RATINGS | UNIT |
|---|---|---|---|
| Forward Current (DC) | IF | 50 | mA |
| Forward Current (Pulse)*1 | IFP | 0.5 | A |
| Reverse Voltage | VR | 5 | V |
| Power Dissipation | PD | 120 | mW |
| Operating Temp. | Topr | -20 TO 85 | ℃ |
| Storage Temp. | Tstg | -30 TO 100 | ℃ |
| Junction Temp. | Tj | 100 | ℃ |
| Lead Soldering Temp.*2 | Tls | 260 | ℃ |

*1:Tw=10uS,T=10mS

*2:Time 5 Sec max,Position:Up to 3mm from the body


To purchase this part contact Marktech Optoelectronics at

**800.984.5337**

Marktech Optoelectronics

www.marktechopto.com

Pb lead-free

RoHS

# ***VSF706C1***

## *Visible Light Emitting Diode*

2.ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25℃)

| I T E M | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| Power Output | PO | IF=20mA | | 4.0 | | mW |
| Forward Voltage | VF | IF=20mA | | 1.8 | 2.3 | V |
| Reverse Current | IR | VR=5V | | | 100 | μA |
| Peak Wavelength | λp | IF=20mA | | 700 | | nm |
| Spectral Line Half Width | Δλ | IF=20mA | | 25 | | nm |
| Half Intensity Beam Angle | θ | IF=20mA | | ±25 | | deg. |
| Rise Time | Tr | IFP=20mA | | — | | nS |
| Fall Time | Tf | IFP=20mA | | — | | nS |
| Junction Capacitance | Cj | 1MHz ,V=0V | | 35 | | pF |
| Temp. Coefficient of PO | P/T | IF=10mA | | -0.6 | | %/℃ |
| Temp. Coefficient of VF | V/T | IF=10mA | | -1.9 | | mV/℃ |

