

Si Photodiodes

KPID020DS-S

Characteristics

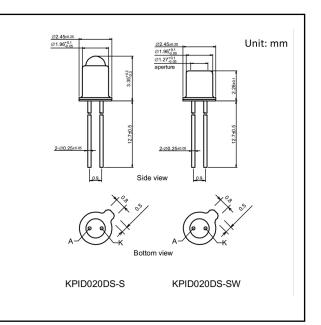
- High density packaging of multiple PD channels
- Cap isolated 2 pin mini can (1.96mm)
- Small size (cap size 1.96mm x 3.35mmL)
- Low dark current (Typ. 15pA @V_R=10V)
- Wide sensitive wavelength (400-1000nm)

Applications

- Digital and analog optical VSR communications
- Optical LAN
- OE converters

Package

• TO-CAN





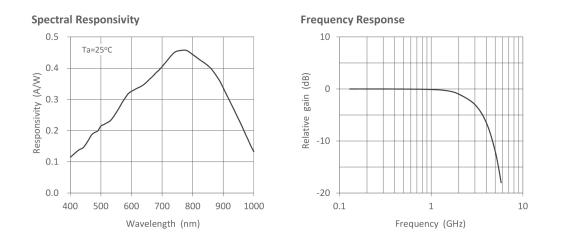
Absolute Maximum Ratings

| Parameter | Symbol | Value | Unit | Conditions |
|-----------------------|------------------|------------|------|------------------------|
| Reverse voltage | V _R | 20 | V | |
| | | | | |
| Reverse Current | I _R | 10 | mA | |
| | | | | - |
| Forward current | I _F | 10 | mA | |
| | | | | |
| Operating temperature | T _{opr} | -40 to +85 | | Avoid dew condensation |
| Storage temperature | T _{stg} | -40 to +85 | | Avoid dew condensation |

Electrical and Optical characteristics (Ta=25 unless otherwise noted)

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions |
|----------------------|----------------|------|------|------|------|---------------------------------|
| Active area | S | - | 200 | - | μm | _ |
| | | | | | | - |
| Sensitive wavelength | | 400 | - | 1000 | nm | |
| | | | | | | |
| Bandwidth | BW | - | 2 | - | GHz | V_{R} =10V R _L =50 |
| Deenersivity | R | | 0.3 | | A/W | V _R =10V =850nm |
| Responsivity | ĸ | - | 0.5 | - | | |
| Dark current | I _D | - | 15 | 60 | pА | V _R =10V |
| | | | | | | |
| Total capacitance | Ct | - | 1.0 | 3 | pF | V _R =10V f=1MHz |







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