

# 6mm Silicon PIN TO-can datasheet

P/N : WST8-08A

## FEATURES

High responsivity  
Low dark current  
Low capacitance

## APPLICATIONS

Laser aiming, guidance, tracking and exploration device  
Laser micro positioning, displacement monitoring and other precision measurement systems

## Electrical-Optical Characteristics( T = 25°C )

| Parameter                  | Symbol      | Min  | Typ.     | Max. | Unit | Test Condition                      |
|----------------------------|-------------|------|----------|------|------|-------------------------------------|
| Sensitive Wavelength Range | $\lambda$   |      | 400~1100 |      | nm   | —                                   |
| Peak Response Wavelength   | $\lambda_c$ |      | 980      |      | nm   | —                                   |
| Active Diameter            | $\Phi$      |      | 6.0      |      | mm   | —                                   |
| Responsivity               | Re          | 0.45 | 0.5      | 0.65 | A/W  | $\lambda = 900\text{nm}$ , VR = 15V |
| Forward Voltage            | Vf          | —    | —        | 0.7  | V    | If = 1mA                            |
| Reverse Breakdown Voltage  | Vbr         | 120  | —        | —    | V    | Id = 10 $\mu$ A                     |
| Dark Current               | Id          | —    | 2.0      | 10   | nA   | VR = 15V                            |
| Capacitance                | Cpd         | —    | 35       | 50   | pF   | V = 15V, f = 1MHz                   |

## Absolute Maximum Rating

| Parameter             | Symbol | Condition | Ratings   | Unit |
|-----------------------|--------|-----------|-----------|------|
| Storage temperature   | Tstg   | —         | -40~ +125 | °C   |
| Operating temperature | Top    | —         | -40~ +85  | °C   |
| Soldering time        | —      | —         | 5         | S    |
| Soldering Temp        | —      | —         | 300       | °C   |

## Pin Connection Type & Outline Drawings :

Package Form: TO-8

