## : ©hipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

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## FEATURES

- Low noise
- Blue enhanced
- High shunt resistance
- High response


## ABSOLUTE MAXIMUM RATING

| SYMBOL | PARAMETER | MIN | MAX | UNITS |
| :---: | :--- | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{BR}}$ | Reverse Voltage |  | 75 | V |
| $\mathrm{~T}_{\mathrm{STG}}$ | Storage Temperature | -55 | +150 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\mathrm{O}}$ | Operating Temperature | -40 | +125 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\mathrm{S}}$ | Soldering Temperature* |  | +240 | ${ }^{\circ} \mathrm{C}$ |

* 1/16 inch from case for 3 seconds max.


## APPLICATIONS

- Instrumentation
- Industrial
- Medical


## SPECTRAL RESPONSE



ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= $23^{\circ} \mathrm{C}$ UNLESS OTHERWISE NOTED

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{I}_{\mathrm{D}}$ | Dark Current | $\mathrm{V}_{\mathrm{R}}=5 \mathrm{~V}$ |  | 1.6 | 6.4 | nA |
| $\mathrm{R}_{\text {SH }}$ | Shunt Resistance | $\mathrm{V}_{\mathrm{R}}=10 \mathrm{mV}$ | 300 |  |  | $\mathrm{M} \Omega$ |
| CJ | Junction Capacitance | $\mathrm{V}_{\mathrm{R}}=0 \mathrm{~V}, f=1 \mathrm{MHz}$ |  | 87 |  | pF |
|  |  | $\mathrm{V}_{\mathrm{R}}=5 \mathrm{~V}, f=1 \mathrm{MHz}$ |  | 26 |  |  |
| $\lambda$ range | Spectral Application Range | Spot Scan | 350 |  | 1100 | nm |
| R | Responsivity | $\lambda=450 \mathrm{~nm} \mathrm{~V}, \mathrm{~V}_{\mathrm{R}}=0 \mathrm{~V}$ | 0.20 | 0.28 |  | A/W |
| $\mathrm{V}_{\text {BR }}$ | Breakdown Voltage | $\mathrm{I}=10 \mu \mathrm{~A}$ |  | 50 |  | V |
| NEP | Noise Equivalent Power | $\mathrm{V}_{\mathrm{R}}=0 \mathrm{~V}$ @ $\lambda=$ Peak |  | $4.2 \times 10^{-14}$ |  | $\mathrm{W} / \sqrt{\mathrm{Hz}}$ |
| $\mathrm{t}_{\mathrm{r}}$ | Response Time** | $\mathrm{RL}=50 \Omega, \mathrm{~V}_{\mathrm{R}}=0 \mathrm{~V}$ |  | 190 |  | nS |
|  |  | $\mathrm{RL}=50 \Omega, \mathrm{~V}_{\mathrm{R}}=10 \mathrm{~V}$ |  | 13 |  |  |

[^0]
[^0]:    **Response time of $10 \%$ to $90 \%$ is specified at 660 nm wavelength light.
    Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

