PHOTONIC DETECTORS INC.

## High-Power \& Current GaAIAs Infrared Emitters Peak Wavelength, 880 nm,Type PDI-E814

PACKAGE DIMENSIONS inch (mm)


TO-46 HERMETIC CAN PACKAGE $80^{\circ}$ HALF INTENSITYBEAM ANGLE

## FEATURES

- Dual cathode
- High current
- Wide angle

DESCRIPTION: The PDI-E814 infrared emitting diode uses dual cathode, high current liquid phase epitaxially grown GaAIAs. Optimized for high power, high current at 880 nm . Packaged in TO-46 header with a clear epoxy glob top.

APPLICATIONS

- Photoelectric switches
- Optical encoders
- Infrared sources

ABSOLUTE MAXIMUM RATING ( $\mathrm{TA}=25^{\circ} \mathrm{C}$ unless otherwise noted)

| SYMBOL | PARAMETER | MIN | MAX | UNITS |
| :---: | :--- | :---: | :---: | :---: |
| Pd | Power Dissipation |  | 360 | mW |
| $\mathrm{I}_{\mathrm{FP}}$ | Continuous Forward Current |  | 180 | mA |
| $\mathrm{I}_{\mathrm{Ep}}$ | Peak Forward Current (100 $\mathrm{\mu s}$ pulse,10pps |  | 3.0 | A |
| $\mathrm{~V}_{\mathrm{B}}$ | Reverse voltage |  | 3.0 | V |
| To \& Ts | Storage \& Operating Temperature | -65 | +125 | ${ }^{\circ} \mathrm{C}$ |
| TS | Soldering Temperature |  | +260 | ${ }^{\circ} \mathrm{C}$ |



BEAM ANGLE, $\theta$ (deg)
ELECTRO-OPTICAL CHARACTERISTICS (TA=25 ${ }^{\circ} \mathrm{C}$ unless otherwise noted)


Information in this technical data sheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. Optical power and radiant intensity measured using uncapped dimpled TO-46 into integrating sphere.

