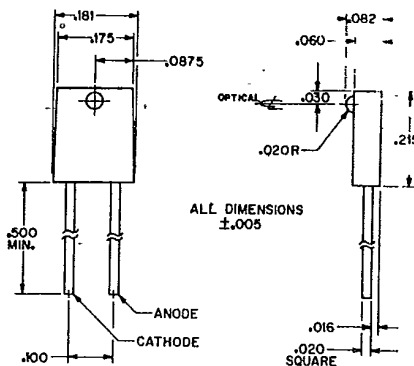


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## CLED405

### Gallium Aluminum Arsenide Infrared Emitting Diode

**GENERAL DESCRIPTION** — The Clairex CLED405 is a super high intensity infrared emitting diode molded in a clear epoxy package. Its molded lens provides a controlled angular irradiance pattern. The CLED405 is spectrally compatible with the complete line of Clairex silicon photo-sensors.



#### ABSOLUTE MAXIMUM RATINGS

Forward Current — 60 ma DC  
 Reverse Voltage — 3 volts  
 Maximum Power dissipation — 100 mw  
 Storage and operating — Temp. -55°C to +100°C

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#### ELECTRICAL CHARACTERISTICS (25°C Free Air unless otherwise designated.)

Symbol	Characteristics	Test Conditions	Min.	Typ.	Max.	Unit
P <sub>o</sub>	Output Power	I <sub>F</sub> = 50 ma	3.0	6.0		milliwatts
P <sub>a</sub> *	On-Line Intensity	I <sub>F</sub> = 50 ma	15			mw/cm <sup>2</sup>
λ <sub>PEAK</sub>	Wave Length			.88		microns
T <sub>s</sub>	Speed of Response	I <sub>F</sub> = 20 ma		600		nanoseconds
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 40 ma			1.7	volts
BV <sub>R</sub>	Reverse Breakdown Voltage	I <sub>R</sub> = 10μa	3.0			volts

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