

FEATURES

- High Output Power
- High Reliability
- Narrow Emission Angle

DESCRIPTION

The **PDI-E804** is an 880nm high power GaAlAs infrared emitter packaged in a TO-46 metal header with a clear epoxy glob top.

APPLICATIONS

- Optical Readers
- Photoelectric Switches
- Infrared Sources

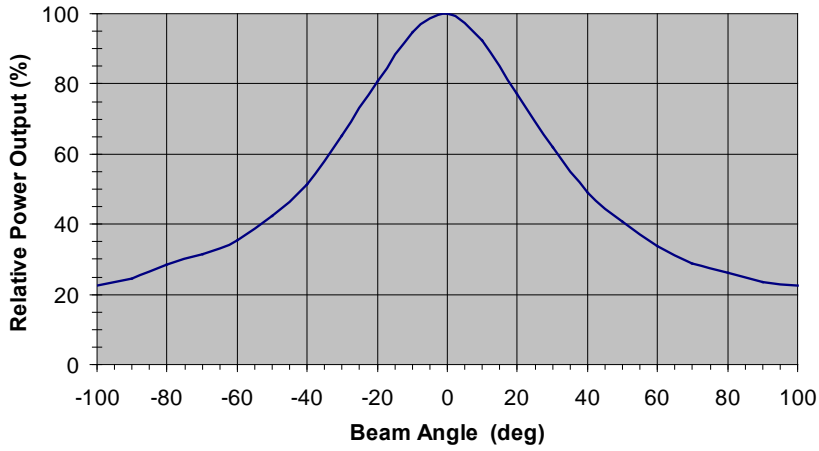
> Absolute Maximum Ratings

Part No.	Power Dissipation [mW]	Continuous Forward Current [mA]	Peak Current [A]	Operating Temperature [C]	Storage Temperature [C]	Package
PDI-E804	160	40	3	-40 to +100	-55 to +125	TO-46

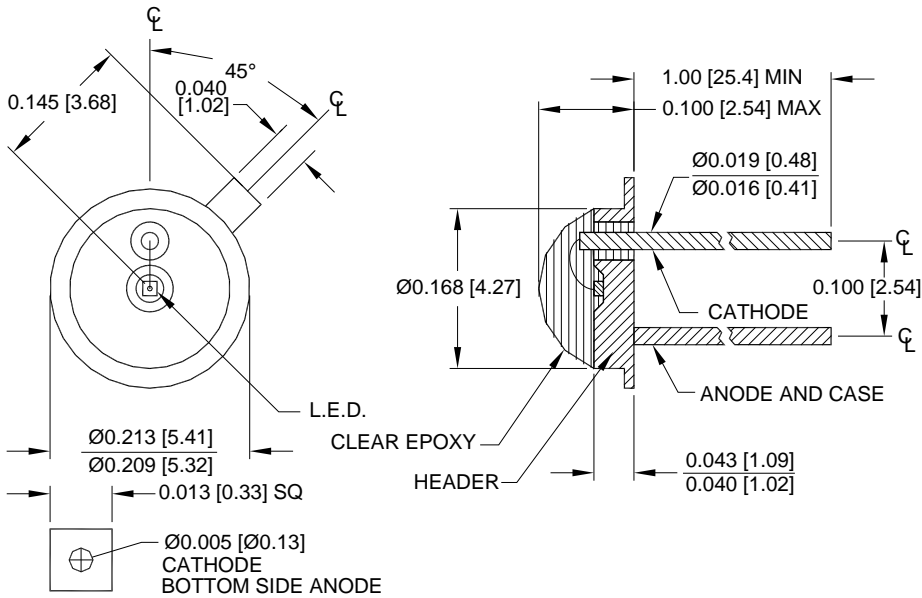
> Electrical and Optical Characteristics

Typical Characteristics (T=23°C unless specified)							
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit	
Output Power	I _f =100 mA	P _O	18	20	-	mW	
Forward Voltage	I _f =100 mA	V _F	-	1.5	1.9	V	
Reverse Breakdown Voltage	I _r =10μA	V _{RB}	5	30	-	V	
Peak Wavelength	I _f =20 mA	λ _P	865	880	895	nm	
Spectral Bandwidth @ 50% (FWHM)	I _f =20mA	λ _{1/2}	-	65	-	nm	
Terminal Capacitance	V _R = 0V, f = 1MHz	C _T	-	17	-	pF	
Rise Time	I _f = 20mA	T _R	-	0.75	-	uS	
Fall Time	I _f = 20 mA	T _F	-	0.40	-	uS	

> Radiation Pattern



> Package Dimensions
inches [mm]



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MATERIALS SAFETY

This product is free of conflict minerals and meets REACH compliance. Please see website for reports.