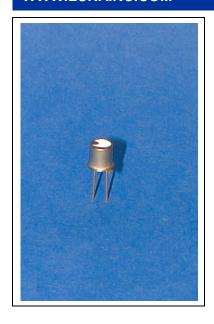
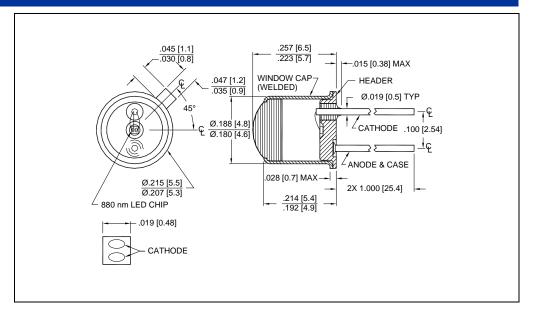


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DESCRIPTION

The **PDI-E813** is a high power GaAlAs infrared emitter, packaged in a hermetic TO-46 metal header with a dome window glass.

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

FEATURES

- High output power
- High reliability
- Medium emission angle

APPLICATIONS

- Photoelectric switches
- Optical readers
- Infrared sources



ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	(TA)= 23°C UNLESS OTHERWISE NOTED
Power Dissipation	-	-	360	mW	-
Continuous Forward Current	-	-	180	mA	-
Peak Forward Current	-	-	3.0	Α	-
Reverser Voltage	-	-	3	V	-
Storage Temperature	-55	to	+125	°C	-
Operating Temperature	-55	to	+125	°C	-
Soldering Temperature	-	-	+240	°C	-

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







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OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Output Power	I _f = 100 mA	7.0	15	-	mW
Forward Voltage	I _f =100 mA	-	1.5	1.9	V
Reverse Current	V _R = -3V	-	-	10	μΑ
Peak Wavelength	I _f =50 mA	865	880	895	nm
Spectral Halfwidth	I _f =50 mA	-	80	-	nm
Dynamic Resistance	I _f = 100 mA	-	1.2	-	Ohms
Rise Time	I _f = 20 mA	-	0.6	-	uS
Fall Time	I _f = 20 mA	-	0.5	-	uS