mail

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

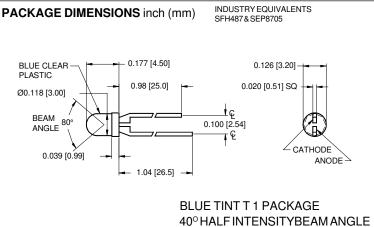
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PHOTONIC DETECTORS INC.

High-Power GaAIAs Infrared Emitters Peak Wavelength, 880 nm, Type PDI-E808





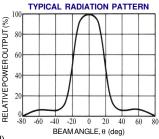
FEATURES

- High output power
- High reliablity
- efficiency. This 880 nm I.R. emitter is packaged in Medium emission angle
- Medium emission angle a low cost T 1 [3 mm diameter] package.
 ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS			
Pd	Power Dissipation		200	mW			
I _{FP}	Continuous Forward Current		100	mA			
I _{FP}	Peak Forward Current (10µs, 10Hz)		2.5	A			
V _R	Reverse voltage		5	V			
To & Ts	Storage & Operating Temperature	-55	+100	℃			
TS	Soldering Temperature*		+240	℃			

APPLICATIONS Photoelectric switches

- Infrared sources
- Automatic controls



*1/16 inch from case for 3 secs max

ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

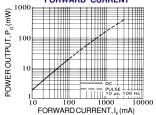
SYMBOL	CHARACTERISTIC	TESTCONDITIONS	MIN	TYP	MAX	UNITS			
le	Radiant Intensity	IF = 50 mA	30	50		mW/Sr			
VF	Forward Voltage	IF = 100 mA		1.6	2.0	V			
VR	Reverse Breakdown Voltage	IF = 100 μA	5	30		V			
λp	Peak Wavelength	IF = 50 mA	883	880	886	nm			
${}_{\Delta}\lambda$	Spectral Halfwidth	IF = 50 mA		70		nm			
Ct	Terminal Capacitance	$V_R = 0 V, f = 1 MHz$		20		pF			
tr	RiseTime	IF = 100 mA		1.5		μS			
tr	FallTime	I⊧ = 50 mA		0.8		μS			

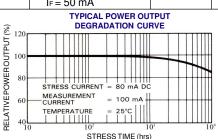
DESCRIPTION: The **PDI-E808** infrared emitting

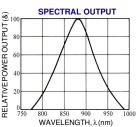
diode uses high reliability liquid phase epitaxially

grown GaAIAS. Optimized for high power, high

POWER OUTPUT vs FORWARD CURRENT







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. [FORM NO. 100-PDI-E808 REV A]