imall

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!

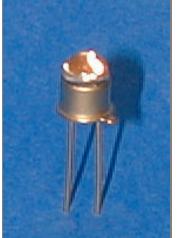


Contact us

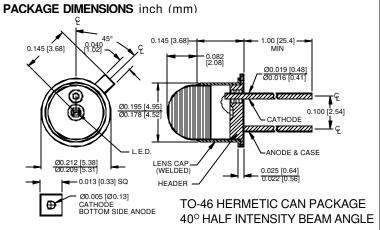
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PHOTONIC DETECTORS INC.



High-Power GaAs Infrared Emitters Peak Wavelength 940 nm, Type PDI-E902



FEATURES

RELATIVE POWER , P_G (%)

100

80

60

40

20

0

0

0

64

60

- High reliablity
- Medium emission angle

DESCRIPTION: The PDI-E902 infrared emitting Hermetically sealed diode uses high reliability liquid phase epitaxially grown GaAs. Optimized for high power, high efficiency. This 940 nm emitter is packaged in a TO-46

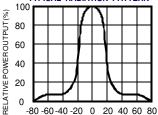
header with a glass lens cap.

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)								
SYMBOL	PARAMETER	MIN	MAX	UNITS				
Pd	Power Dissipation		160	mW				
l _{EP}	Continuous Forward Current		100	mA				
I _{EP}	Peak Forward Current (10µs, 10Hz)		2.5	A				
V _B	Reverse voltage		5	V				
To & Ts	Storage & Operating Temperature	-65	+125	°C				
TS	Soldering Temperature*		+260	°C				
*1/16 inch from case for 3 secs max								

APPLICATIONS

- Photo interrupters
- I.R. remotes
- Infrared sources •

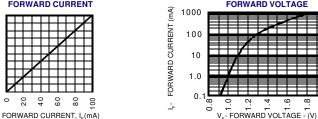
TYPICAL RADIATION PATTERN

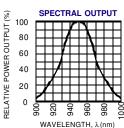


BEAM ANGLE, θ (deg)

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

LECTIO-OF HOAL OFATAOTENIOTOO (TA-23 O unless otherwise hoted)									
SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS			
Po	Output Power	l⊧ = 20 mA	1	1.2		mW			
VF	Forward Voltage	l⊧ = 100 mA		1.30	1.50	V			
VR	Reverse Breakdown Voltage	l⊧= 10 µµ A	5			V			
λp	Peak Wavelength	l⊧ = 100 mA	920	940	960	nm			
Dλ	Spectral Halfwidth	l⊧ = 100 mA		50		nm			
Ct	Terminal Capacitance	V R = 0 V,f = 1 MHz		30		pF			
tr	Rise Time	l⊧ = 100 mA		0.8		μS			
tr	Fall Time	l⊧ = 100 mA		0.8		mS			
POWER OUTPUT vs FORWARD CURRENT vs FORWARD CURRENT S FORWARD VOLTAGE SPECTRAL OUTP									





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

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