



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

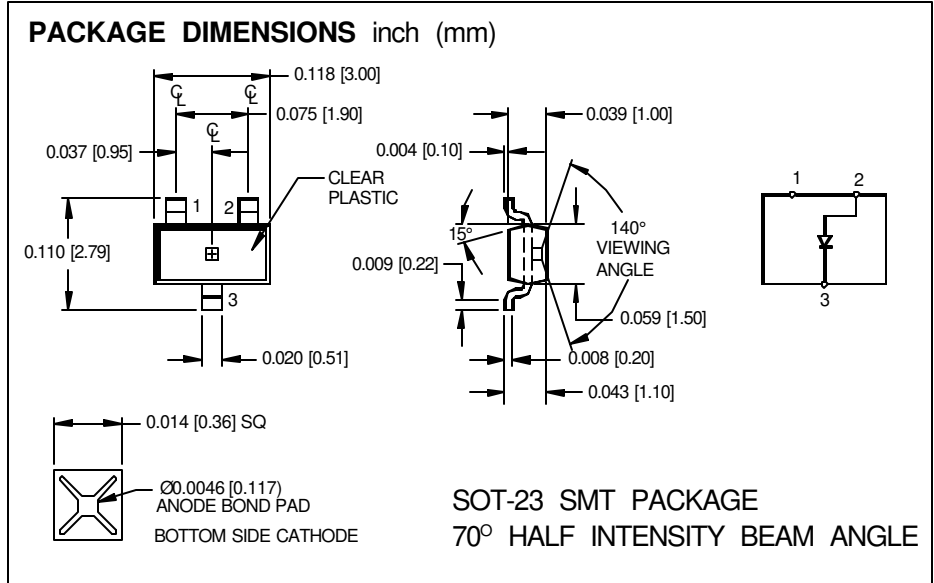
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PHOTONIC DETECTORS INC.

High-Power GaAlAs Infrared Emitters Peak Wavelength, 880 nm, SMT Type PDI-E880SM



FEATURES

- SOT-23 package
- Surface mount
- Wide emission angle

DESCRIPTION:

The PDI-E880SM infrared emitting diode uses high reliability liquid phase epitaxially grown GaAlAs. Optimized for high power, high efficiency. This 880 nm emitter is packaged in a clear plastic SOT-23.

Compatible with automatic pick & place equipment.

APPLICATIONS

- Light screens
- Touch screens
- Infrared sources

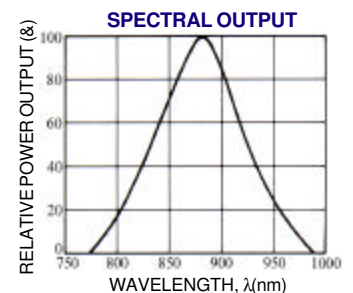
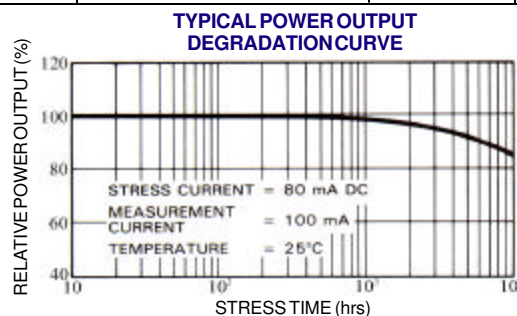
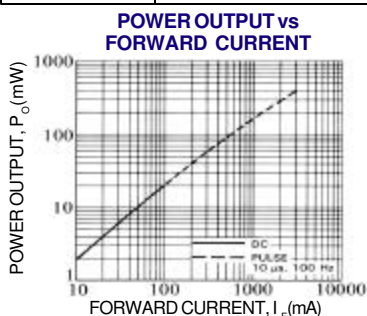
ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS
Pd	Power Dissipation		200	mW
I _{FP}	Continuous Forward Current		100	mA
I _{FP}	Peak Forward Current (10µs, 10Hz)		1	A
V _R	Reverse voltage		5	V
To & Ts	Storage & Operating Temperature	-25	+100	°C
TS	Soldering Temperature*		+240	°C

*1/16 inch from case for 3 secs max

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
P _o	Radiant Intensity	I _F = 50 mA	0.5	1.0		mW/sr
V _F	Forward Voltage	I _F = 20 mA	1.3	1.5		V
V _R	Reverse Breakdown Voltage	I _F = 10 µA	5	30		V
λ _P	Peak Wavelength	I _F = 50 mA		880		nm
Δλ	Spectral Halfwidth	I _F = 50 mA		70		nm
C _t	Terminal Capacitance	V _R = 0 V, f = 1 MHz		20		pF
t _r	Rise Time	I _F = 100 mA		1.5		µS
t _f	Fall Time	I _F = 100 mA		0.8		µS



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-E880SM REV N/C]