



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!



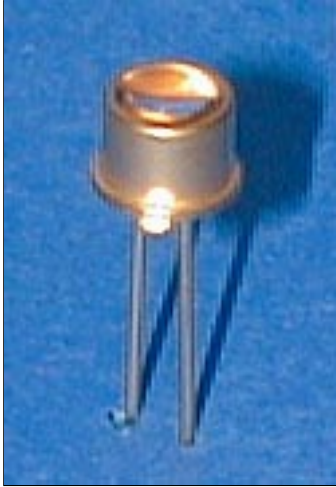
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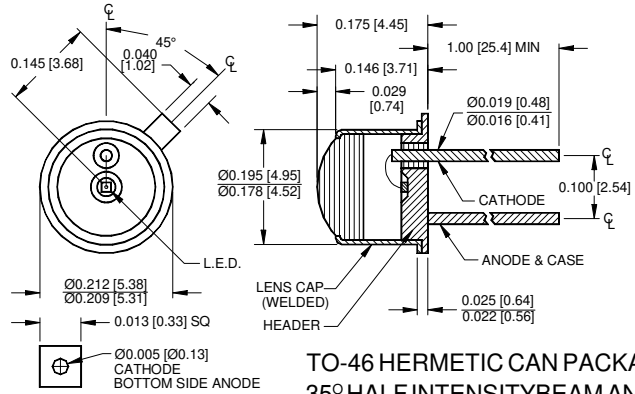
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





PACKAGE DIMENSIONS inch (mm)

INDUSTRY EQUIVALENT
OD-880L



FEATURES

- High output power
- High reliability
- Medium emission angle

DESCRIPTION: The PDI-E807 infrared emitting diode uses high reliability liquid phase epitaxially grown GaAlAs. Optimized for high power, high efficiency. This 880 nm I.R. emitter is packaged in a TO-46 can with a glass lens cap.

APPLICATIONS

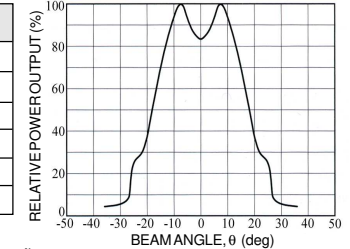
- Photoelectric switches
- Infrared sources
- Automatic controls

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
Pd	Power Dissipation		160	mW
I _{FP}	Continuous Forward Current		100	mA
I _{FP}	Peak Forward Current (10μs, 10Hz)		3.0	A
V _R	Reverse voltage		5	V
To & Ts	Storage & Operating Temperature	-55	+100	°C
TS	Soldering Temperature*		+240	°C

*1/16 inch from case for 3 secs max

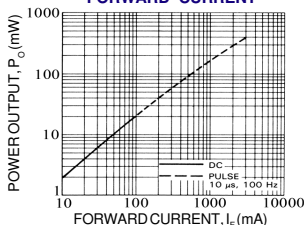
TYPICAL RADIATION PATTERN



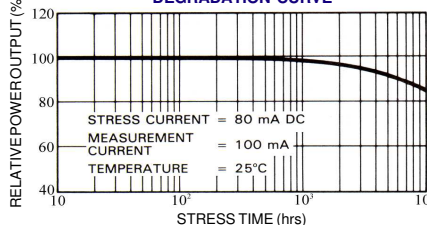
ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
P ₀	Output Power	I _F = 100 mA	18	24		mW/Sr
V _F	Forward Voltage	I _F = 100 mA		1.6	2.0	V
V _R	Reverse Breakdown Voltage	I _F = 100 μA	5	30		V
λ _P	Peak Wavelength	I _F = 50 mA	883	880	886	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 = 50 mA		0.8		μs

POWER OUTPUT vs FORWARD CURRENT



TYPICAL POWER OUTPUT DEGRADATION CURVE



SPECTRAL OUTPUT

