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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

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OPB815L, OPB815WZ Series

Features:

- Wide slot width: 0.375" (9.5 mm)
- Deep slot depth: 0.430" (10.9 mm)



Description:

The **OPB815** consists of an infrared Light Emitting Diode (LED) and an NPN silicon phototransistor mounted in a low-cost plastic housing. The device is designed to switch electrical states when an opaque object is passed through the slot. The slot is wider and deeper than many slotted switches and will accommodate a variety of different materials.

This device can be ordered with PCBoard solderable leads (OPB815L) or with 26 AWG stranded, UL rated wire length of 24" [610 mm] (OPB815WZ).

Custom electrical, wire and cabling and connectors are available. Contact your local representative or OPTEK for more information.

Ordering Information									
Part	LED Peak		Slot	Aperture Emitter /Sensor	Lead Length /				
OPB815L	890 nm	Transistor	0.375" / 0.430"	None	0.10" / 0.53"				
OPB815WZ	890 nm	Transistor	0.375"/ 0.430"	None	24" / 26 AWG				

Applications:

- Non-contact object sensing
- Assembly line automation
- Machine automation
- Equipment security
- Machine safety



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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OPB815L, OPB815WZ Series



Pin #	Description		
1	Anode		
2	Cathode		
3	Collector		
4	Emitter		

Color	Description			
Red	Anode			
Black	Cathode			
White	Collector			
Green	Emitter			



OPB815L, OPB815WZ Series

Electrical Specifications

Absolute	Maximum Ratings (T _A =25°C unless	otherw	ise not	ed)				
Storage	Storage & Operating Temperature Range							
Lead Se	Lead Soldering Temperature [1/16 inch (1.6mm) from the case for 5 sec. with soldering iron]							
Input Infro	ired LED							
Contin	Continuous Forward Current							
Reverse	Reverse Voltage							
Power	Power Dissipation ⁽²⁾							
Output Pho	ototransistor							
Collect	Collector-Emitter Voltage							
Emitte	Emitter-Collector Voltage							
Power	Power Dissipation ⁽²⁾							
Electrica	Characteristics (T _A = 25°C unless ot	herwise	noted)			I	
SYMBOL	PARAMETER	MIN	ТҮР	MAX	UNITS	TEST CONDITIONS		
Input Infro	Input Infrared LED (see OP240 for additional information)							
V _F	Forward Voltage	-	-	1.7	V	I _F = 20 mA		
I _R	Reverse Current	-	-	100	μA	V _R = 2 V		
Output Pho	ototransistor (see OP550 for additional inf	ormatio	n)					
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	30	-	-	V	I _c = 1 mA		
V _{(BR)ECO}	Emitter-Collector Breakdown Voltage	5	-	-	v	I _ε = 100 μA		
I _{CEO}	Collector-Emitter Dark Current	-	-	100	nA	V _{CE} = 10 V, I _F = 0, E _E = 0		
Coupled								
V _{CE(SAT)}	Collector-Emitter Saturation Voltage	-	-	0.4	V	I _c = 500 μA, I _F = 20 mA		
I _{C(ON)}	On-State Collector Current	3.5	-	16	mA	V _{CE} = 10 V, I _F = 20 mA		
	·	•				Te	est Diaaram	

Notes:

All wires are 26 AWG stranded, UL rated. (1)

(2) Derate linearly 1.67mW/°C above 25° C.

Methanol or isopropanol are recommended as cleaning agents. The (3) plastic housing is soluble in chlorinated hydrocarbons and keytones. (4)

All parameters tested using pulse techniques.



Top to Bottom

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OPB815L, OPB815WZ Series





Refer to Test Diagram on page 2 for definition of "Top to Bottom", "Left to Right" and "Right to Left"

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