

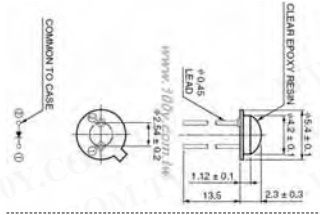


# OPTOELECTRONICS & INDICATORS

the Most Recent Electronic Catalogue 2007

## Infrared Emitting Diode

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



### Features

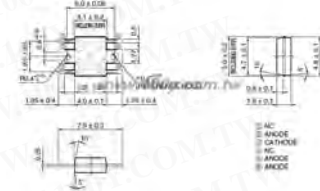
- High radiant output power
- High reliability

### Applications

- Optical switch
- Automatic control system

Part No.	Product No.	Manufacturer	Description	Package	λP(nm)	If max.	Vr max.
27125	L2656	HAMAMATSU	High Power GaAlAs infrared LED	Resin-potted/with reflector	920	80mA	5V

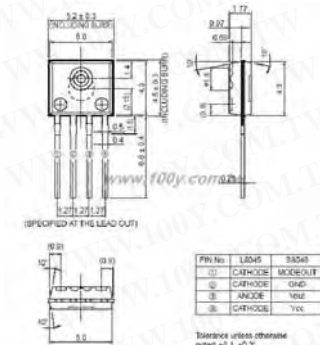
### Dimensional outline (unit: mm)



### Features

- Low forward voltage: 2.4V (IF=1.0A)
- High radiant output power by constant voltage drive
- Small emission spot (reflector size)

Part No.	Product No.	Manufacturer	Description	Package	Po (mW)	Vf@If(mA)	λP(nm)	If max.	Vr max.
27120	L5871	HAMAMATSU	Infrared LED	Plastic	7.0	1.35	900	80mA	3V



L8045 and S8046 are optical communication devices designed for POF (plastic optical fiber) data links. L8045 is a highly reliable, high-power LED that emits red light with a peak at 650 nm optimized for POF. A mini-lens is molded on the package for efficient coupling to a POF. When used with our recommended driver circuit, a 50 Mbps transmitter can be configured at low cost. S8046 is a high sensitivity, high-speed photo IC that receives signals at 50 Mbps and covers a wide dynamic range of 21.5dB. The output is TTL compatible. S8046 also features a sleeping mode in which operation automatically switches to low power dissipation mode when no light is input and switches back to normal operation mode when light is input from the optical fiber. The internal IC checks which mode is currently selected and this check signal is available from the mode output terminal. Current consumption in sleeping mode is approximately 1/400th that of normal operation mode.

### Features

- Peak wavelength: 650nm
- High reliability
- High output

### Applications

- High-speed data transmission even under poor environmental conditions with high noise

Part No.	Product No.	Manufacturer	Description	Package	If max.	Vr max.
27132	L8045	HAMAMATSU	RED LED for optical link	Plastic/with lens	40mA	5V



L8628 and S8627-01A are transmitter and receiver photo ICs developed for MOST (Media Oriented System Transport) networks used in vehicles to communicate multimedia information. The transmitter photo IC L8628 consists of a red LED, driver IC and current regulator chip incorporated into a clear plastic package and can be set to an operating mode that reduces the optical output level by half. The receiver photo IC S8627-01A is a monolithic photo IC fabricated by the PIN-BiP process and features a wide dynamic range. It also has a low power consumption "sleeping mode" and an optical wakeup mode triggered by input of light. Both the transmitter and receiver photo IC input and output digital signals through a TTL interface.

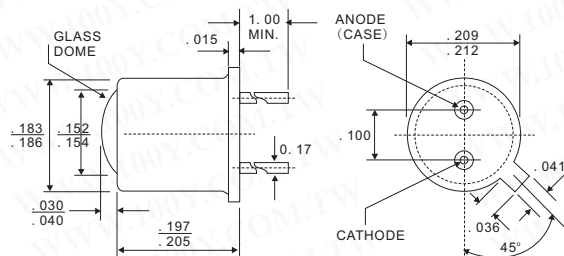
### Features

- DC to 50Mbps data communications
- TTL input
- Optical output 50% cut mode

### Applications

- Only for vehicle networks (MOST)

Part No.	Product No.	Manufacturer	Description	Package	λP(nm)
27137	L8628	HAMAMATSU	Transmitter photo IC for optical link	Plastic/with lens	670nm



### FEATURES

- High reliability liquid-phase epitaxially grown GaAlAs
- 880nm peak emission for optimum matching with ODD-45W photodiode
- Wide range of linear power output
- Hermetically sealed TO-46 package
- Narrow angle for long distance applications
- OD-880F1 selected to meet minimum radiant intensity

Part No.	Product No.	Description	Package	λP(nm)	If max.	Vr max.
32488	OD-880F	OPTO Diode_HIGH-POWER GaAlAs IR EMITTERS	TO-46	880	100mA	0

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