

Black Plastic Photodiode LTR-516AB/LTR-526AB/LTR-536AB/LTR-546AB

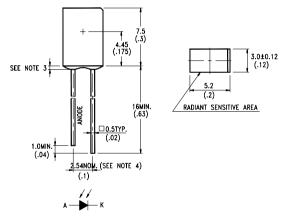
Features

- · High photo sensitivity.
- · Suitable for infrared radiation.
- · Low junction capacitance.
- · High cut-off frequency.
- · Fast switching time.

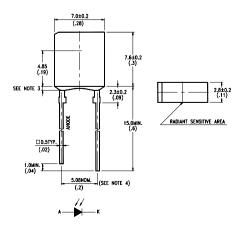
Description

The LTR-516AB/LTR-526AB/LTR-536AB/LTR-546AB are special dark plastic package that cut the visible light and suitable for the detectors of infrared applications. This series is spectrally matched to the LTE-3677/LTE-3376 of infrared emitting diodes.

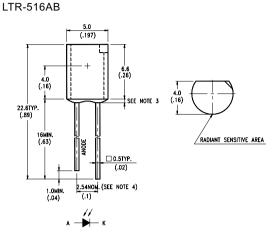
LTR-536AB



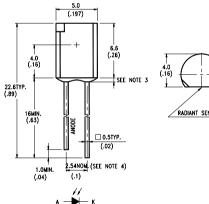




Package Dimensions



LTR-526AB



RADIANT SENSITIVE AREA

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm (.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.5mm (.059") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

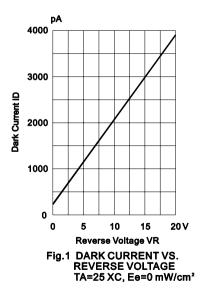
Absolute Maximum Ratings at Ta=25°C

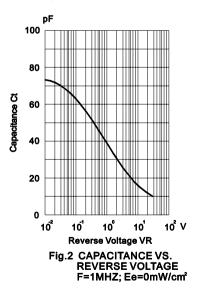
Parameter	Maximum Rating	Unit	
Power Dissipation	150	mW	
Reverse Break Down Voltage	30	V	
Operating Temperature Range	-40°C to +85°C		
Storage Temperature Range	-55°C to +100°C		
Lead Soldering Temperature [1.6mm (.063 in.) from body]	260°C for 5 Seconds		

Electrical Optical Characteristics at Ta=25°C

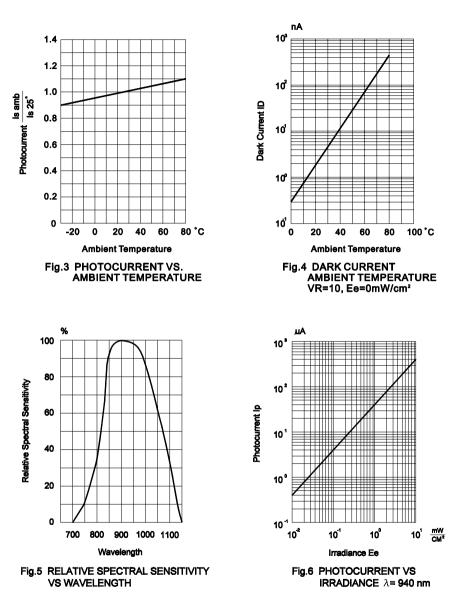
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Reverse Break Down Voltage	V(BR)R	30			V	IR=100 μ A Ee=0mW/cm ²
Reverse Dark Current	lD(R)			30	nA	V _R =10V Ee=0mW/cm ²
Open Circuit Voltage	Voc		350		mV	λ =940nm Ee=0.5mW/cm ²
Rise Time	Tr		50		nsec	VR=10V
Fall Time	Tf		50		nsec	− λ =940nm R∟=1K Ω
Light Current	Is	1.7	2		μ Α	$\begin{array}{c} V_{\text{R}}\text{=}5V\\ \lambda \text{ =}940\text{nm}\\ \text{Ee}\text{=}0.1\text{mW/cm}^2 \end{array}$
Total Capacitance	Ст		25		۶F	R=3V VF=1MHZ Ee=0mW/cm ²
Wavelength of the Max Sensitivity	λ SMAX		900		nm	

Typical Electrical/Optical Characteristic Curves (25°C Ambient Temperature Unless Otherwise Noted)





Typical Electrical/Optical Characteristic Curves (25℃ Ambient Temperature Unless Otherwise Noted)



Typical Electrical/Optical Characteristic Curves (25℃ Ambient Temperature Unless Otherwise Noted)

