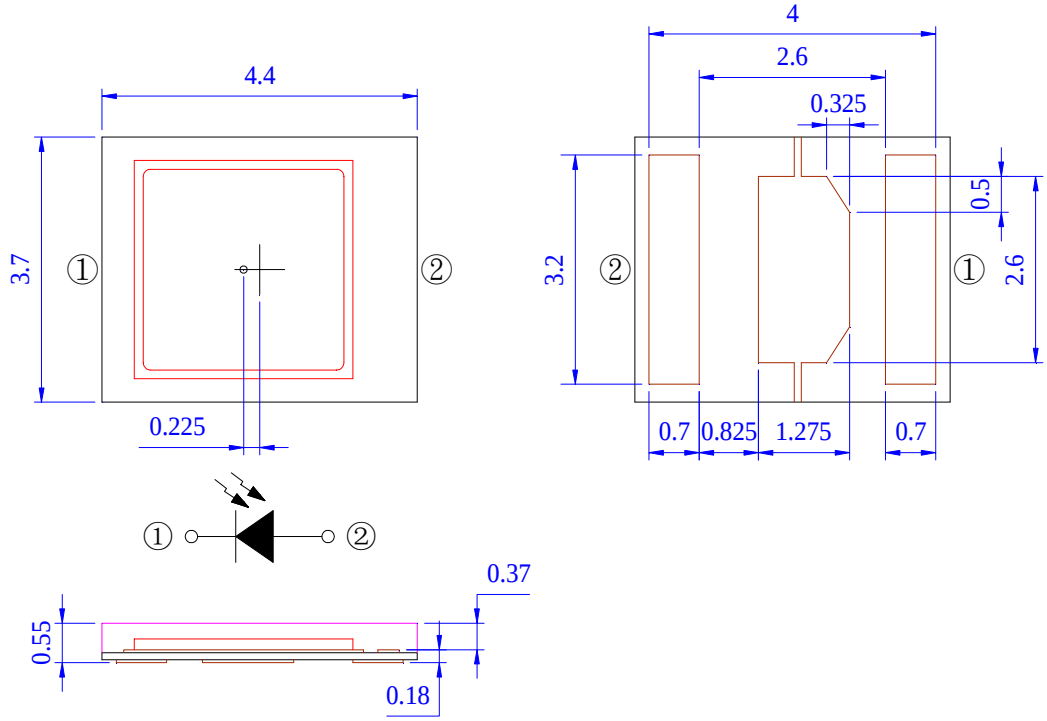
Features

Pb free product—RoHS compliant
High Photo Sensitivity
Reliable and rugged
Long life – solid state reliability
Sensitivity angle: 135°

Application

Health Monitoring
Photo Detector

Package Dimension



Part NO.	Chip Material	Lens Color
SL-T4437PDC020-L55	Silicon	Water Clear

Notes:

1. All dimensions are in millimeters.
2. Tolerance is ±0.10mm unless otherwise noted.
3. Specifications are subject to change without notice.

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Typ.	Max.	Units	Test Conditions
Reverse Light Current	I_L	---	40	---	μA	V_R=5V Ee=1mW/cm^2
Reverse Light Current	I_L	---	35	---	μA	V_R=5V Ee=1mW/cm^2
Reverse Light Current	I_L	---	25	---	μA	V_R=5V Ee=1mW/cm^2
Reverse Dark Current	I_D	---	---	10	nA	V_R=10V Ee=0mW/cm^2
Reverse Voltage	$V_{(R)}$	30	---	---	V	I_R
Forward Voltage	V_F	---	---	1.3	V	I_F=10mA
Viewing Angle(X)	$_{1/2}$	---	135	---	Deg.	(Note 1)
Viewing Angle(Y)	$_{1/2}$	---	135	---	Deg.	
Rise Time/Fall Time	tr/tf	---	30	---	ns	V_R=10V
Total Capacitance	C_T	---	12	---	pF	V_R=5V Ee=0mW/cm^2 f=1.0MHz

Note:

$_{1/2}$ is the off-axis angle at which the Reverse Light Current is half the axial Reverse Light Current.

2. The I_L guarantee should be added ±15% tolerance.

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

Reverse Light Current Bin Code (V_R=5V, Ee=1mW/cm^2, λp=940nm)

NOTE: The I_L guarantee should be r r rrr