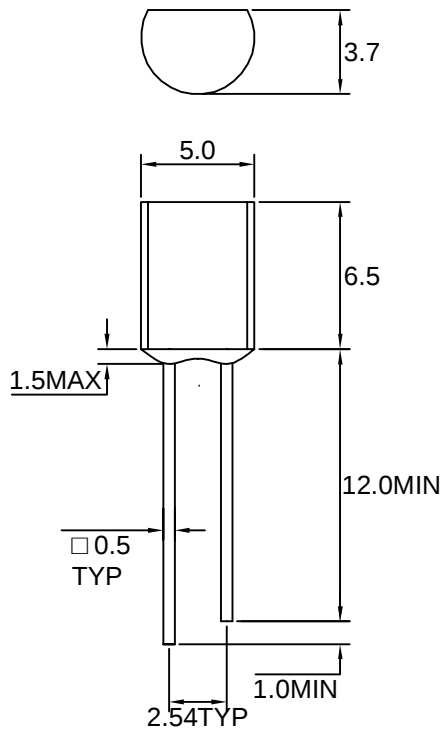


**LIGITEK****PHOTO DIODE SILICON PIN LED LAMPS****LPD4380****SERIES****Package Dimension**

NOTE:1.All dimension are In millimeters tolerance Is ± 0.25 unless otherwise noted
2.Specifications are subject to change without notice

Description

The LPD4380 series are silicon planar P/N photodiodes incorporated in plastic package that simultaneously serve as filter and are also Transparent for infrared emission their terminals are soldering tabs arranged in 2.54mm center to center spacing due to their design the diodes can vertically be assembled on pc boards arrays can be realized by multiple arrangement versatile photodetectors are suitable for diodes as well as voltaic cell operation the signal noise ratio is particularly favorable even at low illuminance the P/N photodiode are outstanding for low junction capacitance high cut-off frequency and fast switching times.

They are particularly suitable for IR sound transmission and remote control the cathode of LPD4380 photodiode is marked by a stamping on the package edge

MAXIMUN RATINGS (TA=25)

Characteristic	Symbol	Rating	Unit
Reversr Break Down Voltage	V_{BR}	30	V
Power Dissipation	PD	150	mW
Operating Temperature	T_{opr}	-30 - +60	
Storage Temperature	T_{stg}	-40 - +60	

ELECTRICAL CHARACTERISTICS AT (TA=)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Dark Current	I_D	$V_R=10V$ $E_e=0mW/cm^2$	-	1.0	30	nA
Short Circuit Current	I_{sc}	$V_R=5V$ $\lambda_P=940nm$ $E_e=0.5mW/cm^2$	1.5	2.0	-	uA
Open Circuit Voltage	V_{oc}	$\lambda_P=940nm$ $E_e=0.5mW/cm^2$	-	350	-	mV
Total Capacitance	C_T	$V_R=3V$ $f=1MHZ$ $E_e=0mW/cm^2$	-	20	-	pF
Peak Wavelength of Max Sensitivity	λ_{smax}		-	940	-	nm
Rise Time,Fall Time	t_r, t_f	$V_R=10V$ $R_L=1K\Omega$	-	50	-	ns