

INFRARED PRODUCTS



(Optic Receiver Modules)

REV:C
DATE:2006/5/26

☰ **DEVICE NO:IR-2638**

☰ **FEATURE:**

- Compact and light plastic package.
- Shielded against electrical field disturbance.
- All photosensitive ICs in this series have a standard availability.

☰ **APPLICATION:**

Video cameras , Movie cameras , Audio equipment , Air conditioner.

☰ **ABSOLUTE MAXIMUM RATINGS:**

T_A=25°C

PARAMETER	SYMBOL	MAX. RATING	UNIT
Supply Voltage	V _{cc}	0~6	V
Operating Temperature	T _{opr}	-25 ~ +80	°C
Storage Temperature	T _{stg}	-40 ~ +85	°C
Dip Soldering Temperature (3mm from case Bottom 260 °C for 5 seconds)			

☰ **ELECTRIC-OPTICAL CHARACTERISTICS:**

T_A=25°C

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Supply Voltage	V _{cc}	DC voltage	4.5	5.0	5.5	V
Supply Current	I _{cc}	no signal input	-	-	3	mA
B.P.F Center Frequency	F _o		-	38	-	kHz
Peak Wavelength	λ _p		-	940	-	nm
Reception Distance	L ₀	At the ray axis *1	14	-	-	m
	L ₄₅		6	-	-	
Half Angle(Horizontal)	θ _h		-	45	-	deg
Half Angle(Vertical)	θ _v		-	45	-	deg
Hight Level Pulse Width	T _H	At the ray axis *2	400	600	800	μs
Low Level Pulse Width	T _L		400	600	800	μs
Hight Level Output Voltage	V _H		4.5	-	-	V
Low Level Output Voltage	V _L		-	0.2	0.5	V

*1:The ray receiving surface at a vertex and relation to the ray axis in the range of $\theta = 0^\circ$ and $\theta = 45^\circ$

*2:A range from 30cm to the arrival distance. Average value of 50 pulses.

OPTIC RECEIVER MODULES

PACKAGE DIMENSIONS:

