OPIC LIGHT DETECTORS



RoHS

C Light Detec	tors ("OPIC" ((Ta	= 25°C)
	Package	Absolute maximum ratings				Electro-optical characteristics							
Type		Vcc (V)	P (mW)	lo (mA)	Topr (°C)	EVLH EVHL			t PLH	t PHL			
Model No. Type						(lx) MAX.	(lx) MAX.	Vcc (V)	(µs) TYP.	(µs) TYP.	Vcc (V)	Ev (Ix)	RL (Ω)
	Transparent epoxy resin with condenser (lens)	-0.5 to +17	175	50	-25 to +85	-	35	5	5	3	5	50	280
		-0.5 to +17	175	50	-25 to +85	35	-	5	3	5	5	50	280
	Type Built-in schmidt trigger circuit, amplifier and	Type Package Built-in schmidt trigger circuit, amplifier and Transparent epoxy resin with	Clight Detectors (light-detecting element Type Package Absol Vcc (V) Vcc (V) Vcc Built-in schmidt trigger circuit, amplifier and Transparent epoxy resin with -0.5 to +17	CLIGNT DETECTORS light-detecting element and sign Type Package Absolute max Vcc (V) P (mW) Built-in schmidt trigger circuit, amplifier and Transparent epoxy resin with -0.5 to +17 175	CLIGNT DETECTORS light-detecting element and signal-proc Type Package Absolute maximum r Vcc P Io (V) (mW) (mA) Built-in schmidt trigger circuit, amplifier and Transparent epoxy resin with -0.5 to +17 175 50	C LIGNT DETECTORS (light-detecting element and signal-processing circuit in Absolute maximum ratings Type Package Vcc (V) P (mW) Io (mA) Topr (°C) Built-in schmidt trigger circuit, amplifier and Transparent epxy resin with -0.5 to +17 175 50 -25 to +85	Light Detectors (light-detecting element and signal-processing circuit integrated Absolute maximum ratings Type Package Vcc (V) P (mW) Io (mA) Topr (°C) EvLH (Ix) MAX. Built-in schmidt trigger circuit, amplifier and Transparent epoxy resin with -0.5 to +17 175 50 -25 to +85 -	Light Detectors (light-detecting element and signal-processing circuit integrated onto a signal-processing circuit integrated ontonto a signal-processing circuit integrated	C LIGNT DETECTORS (light-detecting element and signal-processing circuit integrated onto a single chi Type Absolute maximum ratings Electron Type Package No Topr (V) Colspan="4">Colspan="4">Colspan="4">Colspan="4" Built-in schmidt trigger circuit, amplifier and Transparent epoxy resin with Colspan="4">Colspan="4" Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4"Colspan="4">Colspan="4"Colspan="	Light Detectors (light-detecting element and signal-processing circuit integrated onto a single chip.) Type Absolute maximum ratings Electro-optical Type Package Colspan="4">Image: Colspan="4">Colspan="4"Colspan	Light Detectors (light-detecting element and signal-processing circuit integrated onto a single chip.) Type Absolute maximum ratings Electro-optical character Type Package Monomorphic for the signal-processing circuit integrated onto a single chip.) Type Electro-optical character Package Topr (V) Topr (mA) Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan= 5 Built-in schmidt trigger circuit, amplifier and Transparent epoxy resin with -0.5 to +17 175 50 -25 to +85 - 5 3	C LIGNT DETECTORS (light-detecting element and signal-processing circuit integrated onto a single chip.) Type Absolute maximum ratings Electro-optical characteristics Type Package VCC (V) P Topr (°C) EVLH EVLH tPLH tPLH Built-in schmidt trigger circuit, amplifier and Transparent epoxy resin with -0.5 to +17 T75 50 -25 to +85 - 35 5 5	Absolute maximum ratingsElectro-optical characteristicsTypePackageVcc (V)P (mW)Io (mA)Topr (°C)EvLHEvLHtPLHtPLHImage: Colspan="6">Electro-optical characteristicsBuilt-in schmidt trigger circuit, amplifier andTransparent epoxy resin with-0.5 to +1717550-25 to +85-3553550

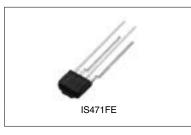


<Model employing a light modulation system>

Absolute maximum ratings Electro-optical characteristics*2 External disturbing light illuminance **t**PHL **t**PLH Vol Vон Model No. Package Туре Vcc Ρ Topr (°C) lo Vcc (V) (V) (V) (µs) TYP. (µs) RL (mW) (mA) (V) EVDX(IX) TYP. ŤΥΡ. MÀX. ΜĺŃ. (Ω) Built-in pulse driver circuit at the emitter Visible light side, synchronous IS471FE*1, *3 cut-off epoxy -0.5 to +16 250 50 -25 to +60 0.35 4.97 400 400 5 280 7 0 0 0 detector circuit, resin amplifier circuit and demodulator circuit

*1 IS471FE is less susceptible to disturbing effects thanks to the light modulation system

*2 Vcc = 5 V
*3 Straight lead type (IS471FSE) is also available.



 Notice

 In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc.

 Except where specially indicated, models listed on this page comply with the RoHS Directive*. For details, please contact SHARP.

 "RoHS Directive: Prohibits use of lead, cadmium, hexavalent chromium, mercury and specific brominated flame retardants (PBBs and PBDEs), with certain exceptions.

 Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

(Ta = 25°C)