



■ OPIC Light Detectors ("OPIC" (Optical IC) is a trademark of SHARP Corporation. An OPIC consists of a light-detecting element and signal-processing circuit integrated onto a single chip.)

(Ta = 25°C)

Model No.	Type	Package	Absolute maximum ratings				Electro-optical characteristics							
			V _{CC} (V)	P (mW)	I _o (mA)	T _{opr} (°C)	EV _{LH} (lx) MAX.	EV _{LH} (lx) MAX.	V _{CC} (V)	t _{PLH} (μs) TYP.	t _{PHL} (μs) TYP.	V _{CC} (V)	E _v (lx)	R _L (Ω)
IS485E	Built-in schmidt trigger circuit, amplifier and voltage regulator	Transparent epoxy resin with condenser (lens)	-0.5 to +17	175	50	-25 to +85	-	35	5	5	3	5	50	280
IS486E			-0.5 to +17	175	50	-25 to +85	35	-	5	3	5	5	50	280



<Model employing a light modulation system>

(Ta = 25°C)

Model No.	Type	Package	Absolute maximum ratings				Electro-optical characteristics*2						External disturbing light illuminance E _{VDX} (lx) TYP.
			V _{CC} (V)	P (mW)	I _o (mA)	T _{opr} (°C)	V _{OL} (V) MAX.	V _{OH} (V) MIN.	t _{PLH} (μs) TYP.	t _{PHL} (μs) TYP.	V _{CC} (V)	R _L (Ω)	
IS471FE*1, *3	Built-in pulse driver circuit at the emitter side, synchronous detector circuit, amplifier circuit and demodulator circuit	Visible light cut-off epoxy resin	-0.5 to +16	250	50	-25 to +60	0.35	4.97	400	400	5	280	7 000

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

*2 V_{CC} = 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.
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 Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.