

Photo Reflector

Model No. RFP-101X

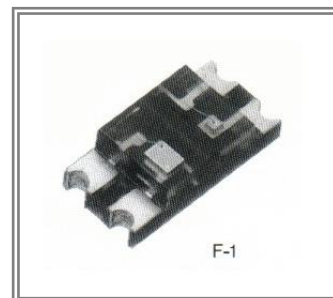
*Photo reflector
For Visible lights*

RFP-101X offers microminiaturized surface mount type photo reflector, suitable as position detectors in tightly packed devices such as automatic devices etc.

◆ **Absolute Maximum Ratings**

Ta = 25°C

Parameter		Symbol	Value	Unit
Emitter	DC forward current	I _F	50	mA
	DC Reverse Voltage	V _R	5	V
Detector	Collector-to-emitter Voltage	V _{CEO}	20	V
	Emitter-to-collector Voltage	V _{ECO}	5	V
	Collector power dissipation	P _C	60	V
Operating Temperature		Topr	-20 ~ +80	°C
Storage Temperature		Tstg	-30 ~ +90	°C



◆ **Electro-optical Characteristics**

Ta = 25°C

Parameter		Symbol		Value	Unit	Condition	
Emitter	Forward Voltage	V _F	Typ	2.1	V	I _F =10mA	
	Reverse Current	I _R	Max	10	μ A	V _R =5V	
	Terminal Capacity	C _T	Typ	50	pF	V=0, f=1MHz	
Detector	Dark Current	I _D	Max	200	nA	V _{CE} =10V	
	Terminal Capacity	C _T	Typ	10	pF	V=0V, f=1MHz	
Conversion Efficiency		Collector output current	I _C	Min	80	μ A	V _{CE} =5V, I _F =10mA
			Max	2000			
				Leakage current	I _{Leak}	Max	3.0
Collector-to-emitter saturation voltage		V _{CE(sat)}	Max	0.5	V	I _F =20mA, I _C =0.1mA	
Response		Rise Time	t _r	Typ	5	μ S	V _{CE} =5V, I _C =1mA R _L =100 Ω
		Fall Time	t _f	Typ	5		

◆ **External Dimension (unit: mm)**

