

Photo Interrupters (Photo IC Output)

F7

Classification	Type No.	Electro-optical Characteristics (Ta=25°C)				
		Output Level (With Light)	Gap (mm)	Slit Width (mm)	IFLH(IFHL)MAX (mA)	Vcc (V)
Photo IC Output	TLP1000A	"H"	3	1	2.5	4.5-17
	TLP1001A	"L"			(2.5)	
	TLP1002A	"H"	5	1	3	
	TLP1003A	"L"			(3)	
	TLP1004A	"H"	3	0.5	4	
	TLP1005A	"L"			(4)	
	TLP1006A	"H"	3	0.5	4	
	TLP1007A	"L"			(4)	
	TLP1014	"H"	3	0.5	4	
	TLP1015	"L"			(4)	
	TLP1016	"H"	3	0.5	4	
	TLP1017	"L"			(4)	
	TLP1018	"H"	5	0.5	6	
	TLP1019	"L"			(6)	
	TLP1020	"H"	2.2	0.2	10	
	TLP1023	"L"	5	0.5	(7)	
	TLP1024	"H"	3	0.5	4	
	TLP1025	"L"	1	0.1	(TYP7)	
TLP1029	"L"	2	LED side 0.5 Detector side 0.15	(6)	4.5-17	
TLP1034	"H"	3	0.5	4		

(Note) IFLH(IFHL): Threshold Input Current Vcc: Operating Supply Voltage

Photo Reflective Sensor

F7

Type No.	S	D	Electro-optical Characteristics (Ta=25°C)				Id MAX (nA)	Vce MAX (V)
			Detecting Distance (mm)	Ic/If MIN (μA)	If (mA)	Vce (V)		
TLP907		○	0.7	500	4	2	250	30
TLP907(LB)		○		500	4	2	250	
TLP908	○		0.7	50	10	5	100	30
TLP908(LB)	○			50	10	5	100	
TLP909		○	3.8	1000	10	2	250	30

(Note) Ic: Collector Current Vce: Collector Emitter Voltage Id: Dark Current S: Photo Transistor D: Photo Darlington Transistor

Fiber Optic Devices (Emitter)

F7

Wave Length	Type No.	Electro-optical Characteristics (Ta=25°C)						
		Pf (dBm)	If (mA)	Vf (V)	If (mA)	Ct (pF)	fc (MHz)	
660nm	TLRC280	-8.5	30	1.85	30	80	7	Note 2
	TLRA280	-4.0	30	1.9	30	80	3	
	TLRC281	-8.5	30	1.85	30	80	7	
	TLRA281	-4.0	30	1.9	30	80	3	
	TLRA282	-6.0	30	1.9	30	80	3	
	TLRA285	-6.0	30	1.9	30	80	3	

Note 1) Pf: Fiber Coupled Power Vf: Forward Voltage Ct: Capacitance fc: Cut-Off Frequency

Note 2) Measuring Condition of If: If=30mA DC + 6mA-P, Output: -3dB down from 100kHz point

Fiber Optic Devices (PIN PD)

F7

Classification	Type No.	Electro-optical Characteristics (Ta=25°C)							
		Sf (A/W)	Vr (V)	Id (nA)	Vr (V)	Ct (pF)	Vr (V)	fc (MHz)	
PIN PD	TPS721A	0.36	10	0.2	10	10	10	70	Note 2
PIN PD	TPS723A	0.37	10	0.5	10	10	10	—	—

Note 1) Sf: Fiber Coupled Sensitivity Id: Dark Current Cr: Capacitance fc: Cut-Off Frequency

Note 2) Measuring Condition of fc: Vr=10V, Rc=50Ω, Output: -3dB down from 100kHz point