

Photo Diode

F7

Classification	Type No.	Package	Electro-optical Characteristics (Ta=25°C)						Visible Light Cut-off	Matched IRED
			Isc (µA)	E (mW/cm²)	Io MAX (nA)	Vr (V)	θ _{1/2} (deg)	Vr (V)		
e5 Package	TPS708	Metal TO-18	1.0	0.1	60	10	±15	20	×	TLN101A TLN102 TLN108 TLN201
Optical Remote Control	TPS703	Plastic	0.9	0.1	30	10	±65	20	λ > 700(nm)	TLN105B TLN115A
	TPS704	Plastic	0.5	0.1					λ > 800(nm)	TLN105B TLN115A
	TPS705	Plastic	0.5	0.1	30	10	±65	20	λ > 800(nm)	TLN105B TLN115A
	TPS706		1.0							
Camera	TPS710	Plastic	-	-	3	2	-	10	×	TLN210

Note) Isc: Short-circuit current Io: Dark Current θ_{1/2}: Half Detecting Angle E: Radiant Incidence Vr: Reverse Voltage

Photo IC

F7

Classification	Type No.	Package	Electro-optical Characteristics (Ta=25°C)					Visible Light Cut-off	Matched IRED
			With Light	Vcc (V)	ELH(EHL)MAX (mW/cm²)	tPH (µs)	tPLH (µs)		
Interrupters	TPS805	Plastic	"H"	4.5-17	0.3	6	2	○	TLN107A
	TPS806		"L"	4.5-17	(0.3)	2	6	○	
	TPS807		"H"	4.5-17	0.3	6	2	○	
	TPS808		"L"	4.5-17	(0.3)	2	6	○	
	TPS811		"H"	4.5-17	0.3	6	2	○	TLN117
	TPS812		"L"	4.5-17	(0.3)	2	6	○	
	TPS813		"H"	4.5-17	0.3	6	2	○	
	TPS814		"L"	4.5-17	(0.3)	2	6	○	

Note) Vcc: Operating Supply Voltage ELH(EHL): Threshold Radiant Incidence tPH: Propagation Delay Time (H→L) tPLH: Propagation Delay Time (L→H)

Photo Interrupters

F7

Classification	Type No.	Electro-optical Characteristics (Ta=25°C)					Vce MAX (V)	Io MAX (nA)
		Gap (mm)	Slit Width (mm)	Ic/Ir(%) MIN	If (mA)	Vce(V)		
Photo Transistor Output	TLP800A	3	1	10	20	5	30	100
	TLP801A	3	1	10	20	5	30	100
	TLP802	5	0.5	2	20	5	30	100
	TLP803	5	0.5	2.5	20	5	35	100
	TLP804	3	0.5	2.5	20	5	30	100
	TLP805	3	0.5	2.5	20	5	30	100
	TLP806	5	0.5	2.5	20	5	35	100
	TLP809	2	LED side 0.6 Detector side 0.15	3	20	5	35	100
	TLP810	1	0.4	5	5	0.6	35	100
	TLP811	5	1	9	20	5	35	100
	TLP812	1	0.4	5	5	0.6	35	100
	TLP813	2.2	0.2	2.5	20	5	35	100
	TLP814	1.5	0.4	2	5	0.6	35	100
	TLP815	3	0.5	5	20	5	35	100
	TLP816	1	0.15	0.5	5	0.6	35	100
	TLP818	5	0.5	2.5	20	5	35	100
	TLP822	5	0.5	5	10	2	35	100
	TLP824	3	0.5	6	10	2	35	100
	TLP825	3	0.5	6	10	2	35	100
	TLP826	5	0.5	5	10	2	35	100
	TLP827	5	0.5	5	10	2	35	100
	TLP828	5	—	7.5	10	5	35	100
	TLP830	2	0.15	5	10	2	35	100
	TLP832	5	0.5	5	10	2	35	100
	TLP833	5	0.5	5	10	2	35	100
	TLP834	3	0.4	(2.5)	10	2	35	100
TLP836	1	0.1	(0.5)	10	2	35	100	

Note) Ic/Ir: Current Transfer Ratio If: Forward Current Vce: Collector Emitter Voltage Io: Dark Current