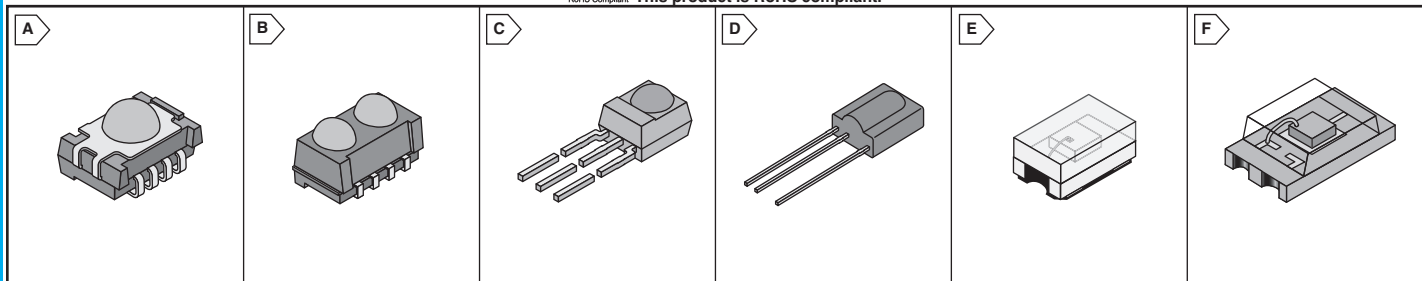


VISHAY Opto Components



RoHS Compliant This product is RoHS compliant.



RECEIVERS

Vishay is the world's leading supplier of infrared (IR) receivers. No other supplier offers a similar breadth of products, holders, application and technical support, and overall knowledge of infrared communication. Vishay was the first to commercialize IR receivers. We have maintained our lead by supplying quality products that out-perform the competition. Our customers have confidence that our IR receivers will receive the remote control signals while filtering out noise in the most demanding ambient environments. With the introduction of AGC types, Vishay extends this lead by tailoring our IR receivers to specific coding schemes and ambient environments.

Features:

- High sensitivity for a large transmission range (35 m/120 ft)
- Minimum interference from optical, electrical and electromagnetic disturbance sources
- Compact outline, many different mechanical versions
- Available for carrier frequencies from 30 kHz up to 56 kHz
- No external components necessary
- Output compatible for use with a micro-controller
- Relevant quality certifications ISO 9001, QS9000VDA6.1
- Automated large volume production

Applications:

- TV sets
- Video recorders
- Satellite receivers
- DVD players
- Slide projectors
- Audio components
- Air-conditioners
- Data communication
- Sensors and Light barrier systems for long distances

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.		Fig.	Supply Voltage (V)	Supply Current (Typ.)(mA)	Carrier Frequency (kHz)	Trans. Dist. (m)	Min. Irradiance (Max.) mW/m ²	Max. Irradiance (Min.) W/m ²	Power Consumption (mW)	Directivity (°)	Burst Length Cycles/Burst	Price Each				
Mfr.	Mfr. Part No.											1	100	500	1000	
Surface Mount																
	782—TSOP36136	A	2.7 to 5.5	1.2	36	35	600	30	30	±45	⇒6	1.15	1.08	1.04	.93	
	782—TSOP36138	A	2.7 to 5.5	1.2	38	35	600	30	30	±45	⇒6	1.50	1.20	.99	.87	
	782—TSOP36156	A	2.7 to 5.5	1.2	56	35	600	30	30	±45	⇒6	1.50	1.20	.99	.87	
	782—TSOP36236	A	2.7 to 5.5	1.2	36	35	600	30	30	±45	⇒6	1.43	1.14	.94	.83	
	782—TSOP36238	A	2.7 to 5.5	1.2	38	35	600	30	30	±45	⇒6	1.65	1.57	1.31	.785	
	782—TSOP36256	A	2.7 to 5.5	1.2	56	35	600	30	30	±45	⇒6	1.43	1.14	.94	.83	
	782—TSOP5038	A	2.7 to 5.5	5	38	30	1	30	10	±50	-----	.90	.72	.59	.52	
	782—TSOP6136	A	4.5 to 5.5	1.2	36	35	0.45	30	10	±50	⇒6	1.13	.90	.74	.65	
	782—TSOP6138	A	4.5 to 5.5	1.2	38	35	0.45	30	10	±50	⇒6	1.34	1.13	.92	.817	
	782—TSOP6156	A	4.5 to 5.5	1.2	56	35	0.45	30	10	±50	⇒6	1.41	1.13	.93	.817	
	782—TSOP6236	A	4.5 to 5.5	1.2	36	35	0.45	30	10	±50	⇒10	1.35	1.08	.89	.78	
	782—TSOP6238	A	4.5 to 5.5	1.2	38	35	0.45	30	10	±50	⇒10	1.29	1.08	.889	.78	
	782—TSOP6256	A	4.5 to 5.5	1.2	56	35	0.45	30	10	±50	⇒10	1.35	1.08	.89	.78	
	782—TSOP75238	B	2.5 to 5.5	3	38	45	0.35	30	10	±50	⇒10	.85	.68	.56	.49	
Thru-Hole																
	782—TSOP2436	C	2.5 to 5.5	3	36	45	0.25	30	10	±45	⇒10	1.10	.88	.73	.64	
	782—TSOP2438	C	2.5 to 5.5	3	38	45	0.25	30	10	±45	⇒10	1.10	.88	.73	.64	
	782—TSOP31236	D	2.5 to 5.5	0.35	36	45	0.35	30	10	±45	⇒10	1.20	.77	.695	.666	
	782—TSOP31238	D	2.5 to 5.5	0.35	38	45	0.35	30	10	±45	⇒10	1.12	.94	.77	.635	
	782—TSOP34833	C	2.5 to 5.5	3	33	45	0.25	30	10	±45	⇒10	1.00	.96	.79	.70	
	782—TSOP38238	D	2.5 to 5.5	3	38	45	0.35	30	10	±45	⇒10	.65	.52	.43	.38	
	782—TSOP39336	D	2.5 to 5.5	3	36	45	0.35	30	10	±45	⇒6	6.50	5.20	4.29	3.77	
	782—TSOP32136	C	2.7 to 5.5	1.2	36	45	0.25	30	10	±45	⇒6	1.03	1.00	.82	.72	
	782—TSOP32138	C	2.7 to 5.5	1.2	38	45	0.25	30	10	±45	⇒6	1.03	1.00	.82	.72	
	782—TSOP32156	C	2.7 to 5.5	1.2	56	35	0.25	30	10	±45	⇒6	1.03	1.00	.82	.72	
	782—TSOP34136	C	2.7 to 5.5	1.2	36	35	0.25	30	10	±45	⇒6	1.25	1.00	.82	.72	
	782—TSOP34138	C	2.7 to 5.5	1.2	38	35	0.25	30	10	±45	⇒6	1.19	1.00	.82	.72	
	782—TSOP34156	C	2.7 to 5.5	1.2	56	35	0.25	30	10	±45	⇒6	1.25	1.00	.82	.72	
	782—TSOP32236	C	2.7 to 5.5	1.2	36	35	0.25	30	10	±45	⇒10	1.20	.96	.79	.70	
	782—TSOP32238	C	2.7 to 5.5	1.2	38	35	0.25	30	10	±45	⇒10	1.55	1.05	.886	.719	
	782—TSOP32256	C	2.7 to 5.5	1.2	56	35	0.25	30	10	±45	⇒10	1.00	.95	.79	.648	
	782—TSOP34836	C	2.7 to 5.5	1.2	36	35	0.25	30	10	±45	⇒10	1.14	.95	.79	.648	
	782—TSOP34838	C	2.7 to 5.5	1.2	38	35	0.25	30	10	±45	⇒10	1.43	1.05	.886	.719	
	782—TSOP34856	C	2.7 to 5.5	1.2	56	35	0.25	30	10	±45	⇒10	1.00	.96	.79	.70	
	782—TSOP1136	D	4.5 to 5.5	1.2	36	35	0.35	30	10	±45	⇒6	1.15	.74	.665	.637	
	782—TSOP1138	D	4.5 to 5.5	1.2	38	35	0.35	30	10	±45	⇒6	1.11	.93	.77	.67	
	782—TSOP1156	D	4.5 to 5.5	1.2	56	35	0.35	30	10	±45	⇒6	.97	.75	.675	.647	
	782—TSOP2136	C	4.5 to 5.5	1.2	36	35	0.4	30	50	±45	⇒6	.97	.75	.675	.67	
	782—TSOP2138	C	4.5 to 5.5	1.2	38	35	0.4	30	50	±45	⇒6	.97	.75	.675	.67	
	782—TSOP2156	C	4.5 to 5.5	1.2	56	35	0.5	30	50	±45	⇒6	1.10	.93	.77	.67	
	782—TSOP4136	C	4.5 to 5.5	1.2	36	35	0.35	30	10	±45	⇒6	1.16	.93	.77	.67	
	782—TSOP4138	C	4.5 to 5.5	1.2	38	35	0.35	30	10	±45	⇒6	1.16	.93	.77	.67	
	782—TSOP4156	C	4.5 to 5.5	1.2	56	35	0.35	30	10	±45	⇒6	1.16	.93	.77	.67	
	782—TSOP1236	D	4.5 to 5.5	0.6	36	35	0.35	30	10	±45	⇒10	1.10	.88	.73	.64	
	782—TSOP2236	C	4.5 to 5.5	1.2	36	35	0.35	30	10	±45	⇒10	1.05	.88	.73	.659	
	782—TSOP2238	C	4.5 to 5.5	1.2	38	35	0.35	30	10	±45	⇒10	1.05	.88	.73	.659	
	782—TSOP2256	C	4.5 to 5.5	1.2	56	35	0.35	30	10	±45	⇒10	1.05	.88	.73	.635	
	782—TSOP4830	C	4.5 to 5.5	1.1	30	35	0.35	30	10	±45	⇒10	.91	.88	.73	.64	
	782—TSOP4836	C	4.5 to 5.5	1.1	36	35	0.35	30	10	±45	⇒10	1.10	.88	.73	.64	
	782—TSOP4838	C	4.5 to 5.5	1.1	38	35	0.35	30	10	±45	⇒10	.95	.76	.63	.55	
	782—TSOP4840	C	4.5 to 5.5	1.1	40	35	0.35	30	10	±45	⇒10	1.05	.88	.72	.595	
	782—TSOP4856	C	4.5 to 5.5	1.1	56	35	0.35	30	10	±45	⇒10	1.10	.88	.73	.64	

AMBIENT LIGHT SENSOR

Vishay ambient light sensors enables electronic products like LCD displays and streetlights to sense and respond to light in ways similar to the human eye. The TEMT6000X01 and TEMT6200FX01 are small phototransistors with peak sensitivity of 570 nm. With a unique, patent-pending filtering material, interference from infrared and ultraviolet light is virtually eliminated. The TEMD610FX01 photodiode is qualified to the automotive's most rigorous standard, AEC-Q101.

Features:

- Adapted to human eye responsivity
- High photo sensitivity
- Suppression filter for near infrared radiation
- Floor life: 168 h, MSL 3, acc. J-STD-020
- AEC-Q101 qualified

Applications:

- Automotive sensors
- Ambient light sensors
- Backlight dimming
- Mobile phones
- Notebooks
- Computers
- Cameras
- Dashboards
- PDA's

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.		Fig.	V _{BR}		Angle of Half Intensity (°)	Reverse Dark Current (max.)(nA)	Reverse Light Current (typ.)(µA)	Peak Emission Wavelength (nm)	Diode Capacitance (V _R =0 (pF))	Rise/Fall Times (typ.)(ns)	Price Each			
Mfr.	Mfr. Part No.		(V) (min)	@ IR (µA)							1	100	500	1000
	782—TEMT6000	E	-----	-----	±60	0.05	10	570	-----	-----	1.13	.87	.61	.56
	782—TEMT6200F	E	-----	-----	±60	0.03	4.6	550	-----	-----	.74	.59	.49	.43
	782—TEMD610FX01	F	16	100	±60	0.03	1	540	60	-----	1.76	1.32	1.03	.88
	782—TEMD6200FX01	E	16	100	±60	5	0.4	540	60	150/150	.79	.63	.52	.46