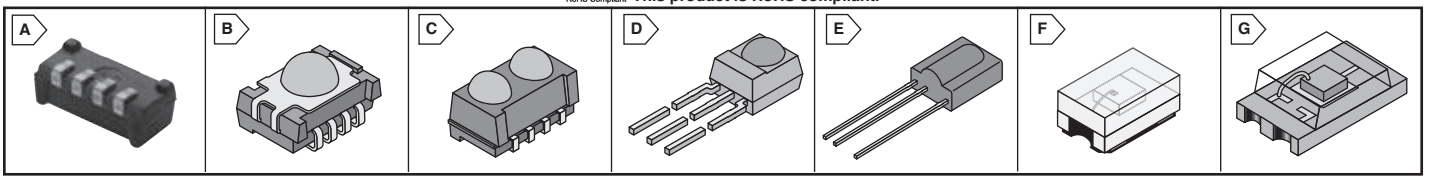
VISHAY Opto Components

RoHS Compliant **This product is RoHS compliant.**



IR RECEIVERS FOR 3D TV

Vishay Intertechnology has developed two infrared receivers speifically for the LCD shutter glasses used with 3D-ready TV sets. These receivers are designed to be assembled into active 3D glasses, where they received infrared signals from the TV set and ensure the glasses' LCD shutters open and close in proper synchronization to create the 3D effect.

Features:
- Eliminates possible interference from TV and set-top box remote control signals
- Eliminates interference with remote control emitters and receivers
- Enables more streamlined designs for 3D glasses

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)	Irradiance (Typ.) (mW/sqm)	Power Consumption (mW)	Directivity (°)	Burst Length Cycles/Burst	Price Each			
Mfr.	Mfr. Part No.										1	100	500	1000
782	TSOP35D25TT	A	2.5 to 5.5	0.35	25	26	0.15	10	±50	=>6	.92	.77	.63	.56
782	TSOP75D25TT	A	2.5 to 5.5	0.35	25	26	0.15	10	±50	=>6	.92	.77	.63	.56

RECEIVERS

Features:
- High sensitivity for a large transmission range (35 m/120 ft)
- 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

NEW PRODUCT

Applications:
- TV sets
- Video recorders
- Satellite receivers
- DVD players
- Slide projectors
- Air-conditioners
- Sensors and Light barrier systems for long distances

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MOUSER STOCK NO.		Fig.	Supply Voltage (V)	Supply Current (Typ.)(mA)	Carrier Frequency (kHz)	Trans. Dist. (m)	Min. Irradiance (Max.) mW/m2	Max. Irradiance (Min.) W/m2	Power Consumption (mW)	Directivity (°)	Burst Length Cycles/Burst	Price Each			
Mfr.	Mfr. Part No.											1	100	500	1000
Surface Mount															
782	TSOP36136	B	2.7 to 5.5	1.2	36	35	600	30	30	±45	=>6	1.15	1.08	1.04	.93
782	TSOP36138	B	2.7 to 5.5	1.2	38	35	600	30	30	±45	=>6	1.50	1.20	.99	.87
782	TSOP36156	B	2.7 to 5.5	1.2	56	35	600	30	30	±45	=>6	1.50	1.20	.99	.87
782	TSOP36236	B	2.7 to 5.5	1.2	36	35	600	30	30	±45	=>6	1.43	1.14	.94	.83
782	TSOP36238	B	2.7 to 5.5	1.2	38	35	600	30	30	±45	=>6	1.65	1.57	1.31	.785
782	TSOP36256	B	2.7 to 5.5	1.2	56	35	600	30	30	±45	=>6	1.43	1.14	.94	.83
782	TSOP5038	B	2.7 to 5.5	5	38	30	1	30	10	±50	-----	.90	.72	.59	.52
782	TSOP6136	B	4.5 to 5.5	1.2	36	35	0.45	30	10	±50	=>6	1.13	.90	.74	.65
782	TSOP6138	B	4.5 to 5.5	1.2	38	35	0.45	30	10	±50	=>6	1.34	1.13	.92	.817
782	TSOP6156	B	4.5 to 5.5	1.2	56	35	0.45	30	10	±50	=>6	1.41	1.13	.93	.817
782	TSOP6236	B	4.5 to 5.5	1.2	36	35	0.45	30	10	±50	=>10	1.35	1.08	.89	.78
782	TSOP6238	B	4.5 to 5.5	1.2	38	35	0.45	30	10	±50	=>10	1.29	1.08	.889	.78
782	TSOP6256	B	4.5 to 5.5	1.2	56	35	0.45	30	10	±50	=>10	1.35	1.08	.89	.78
782	TSOP75238	C	2.5 to 5.5	3	38	45	0.35	30	10	±50	=>10	.85	.68	.56	.49
Thru-Hole															
782-TSOP32338SS1V		D	2.5 to 5.5	0.35	38	45	0.1	30	10	±45	=>6	.70	.63	.50	.45
782-TSOP32438SS1V		D	2.5 to 5.5	0.35	38	45	0.1	30	10	±45	=>6	.70	.63	.50	.45
782-TSOP38238SS1V		E	2.5 to 5.5	0.35	38	45	0.15	30	10	±45	=>6	.63	.56	.45	.40
782-TSOP38338SS1V		E	2.5 to 5.5	0.35	38	45	0.15	30	10	±45	=>6	.63	.56	.45	.40
782	TSOP2436	D	2.5 to 5.5	3	36	45	0.25	30	10	±45	=>10	1.10	.88	.73	.64
782	TSOP2438	D	2.5 to 5.5	3	38	45	0.25	30	10	±45	=>10	1.10	.88	.73	.64
782	TSOP31236	E	2.5 to 5.5	0.35	36	45	0.35	30	10	±45	=>10	1.20	.77	.695	.666
782	TSOP31238	E	2.5 to 5.5	0.35	38	45	0.35	30	10	±45	=>10	1.12	.94	.77	.635
782	TSOP34833	D	2.5 to 5.5	3	33	45	0.25	30	10	±45	=>10	1.00	.96	.79	.70
782	TSOP38238	E	2.5 to 5.5	3	38	45	0.35	30	10	±45	=>10	.65	.52	.43	.38
782	TSOP39336	E	2.5 to 5.5	3	36	45	0.35	30	10	±45	=>6	6.50	5.20	4.29	3.77
782	TSOP32136	D	2.7 to 5.5	1.2	36	35	0.25	30	10	±45	=>6	1.03	1.00	.82	.72
782	TSOP32138	D	2.7 to 5.5	1.2	38	35	0.25	30	10	±45	=>6	1.03	1.00	.82	.72
782	TSOP32156	D	2.7 to 5.5	1.2	56	35	0.25	30	10	±45	=>6	1.03	1.00	.82	.72
782	TSOP34136	D	2.7 to 5.5	1.2	36	35	0.25	30	10	±45	=>6	1.25	1.00	.82	.72
782	TSOP34138	D	2.7 to 5.5	1.2	38	35	0.25	30	10	±45	=>6	1.19	1.00	.82	.72
782	TSOP34156	D	2.7 to 5.5	1.2	56	35	0.25	30	10	±45	=>6	1.25	1.00	.82	.72
782	TSOP32236	D	2.7 to 5.5	1.2	36	35	0.25	30	10	±45	=>10	1.20	.96	.79	.70
782	TSOP32238	D	2.7 to 5.5	1.2	38	35	0.25	30	10	±45	=>10	1.55	1.05	.886	.719
782	TSOP32256	D	2.7 to 5.5	1.2	56	35	0.25	30	10	±45	=>10	1.00	.95	.79	.648
782	TSOP34836	D	2.7 to 5.5	1.2	36	35	0.25	30	10	±45	=>10	1.14	.95	.79	.648
782	TSOP34838	D	2.7 to 5.5	1.2	38	35	0.25	30	10	±45	=>10	1.43	1.05	.886	.719
782	TSOP34856	D	2.7 to 5.5	1.2	56	35	0.25	30	10	±45	=>10	1.00	.96	.79	.70
782	TSOP1136	E	4.5 to 5.5	1.2	36	35	0.35	30	10	±45	=>6	1.15	.74	.665	.637
782	TSOP1138	E	4.5 to 5.5	1.2	38	35	0.35	30	10	±45	=>6	1.11	.93	.77	.67
782	TSOP1156	E	4.5 to 5.5	1.2	56	35	0.35	30	10	±45	=>6	.97	.75	.675	.647
782	TSOP2136	D	4.5 to 5.5	1.2	36	35	0.4	30	50	±45	=>6	.97	.75	.675	.67
782	TSOP2138	D	4.5 to 5.5	1.2	38	35	0.4	30	50	±45	=>6	.97	.75	.675	.67
782	TSOP2156	D	4.5 to 5.5	1.2	56	35	0.5	30	50	±45	=>6	1.10	.93	.77	.67
782	TSOP4136	D	4.5 to 5.5	1.2	36	35	0.35	30	10	±45	=>6	1.16	.93	.77	.67
782	TSOP4138	D	4.5 to 5.5	1.2	38	35	0.35	30	10	±45	=>6	1.16	.93	.77	.67
782	TSOP4156	D	4.5 to 5.5	1.2	56	35	0.35	30	10	±45	=>6	1.16	.93	.77	.67
782	TSOP1236	E	4.5 to 5.5	0.6	36	35	0.35	30	10	±45	=>10	1.10	.88	.73	.64
782	TSOP2236	D	4.5 to 5.5	1.2	36	35	0.35	30	10	±45	=>10	1.05	.88	.73	.659
782	TSOP2238	D	4.5 to 5.5	1.2	38	35	0.35	30	10	±45	=>10	1.05	.88	.73	.659
782	TSOP2256	D	4.5 to 5.5	1.2	56	35	0.35	30	10	±45	=>10	1.05	.88	.73	.635
782	TSOP4830	D	4.5 to 5.5	1.1	30	35	0.35	30	10	±45	=>10	.91	.88	.73	.64
782	TSOP4836	D	4.5 to 5.5	1.1	36	35	0.35	30	10	±45	=>10	1.10	.88	.73	.64
782	TSOP4838	D	4.5 to 5.5	1.1	38	35	0.35	30	10	±45	=>10	.95	.76	.63	.55
782	TSOP4840	D	4.5 to 5.5	1.1	40	35	0.35	30	10	±45	=>10	1.05	.88	.72	.595
782	TSOP4856	D	4.5 to 5.5	1.1	56	35	0.35	30	10	±45	=>10	1.10	.88	.73	.64

AMBIENT LIGHT SENSOR

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

Applications:
- Automotive sensors
- Ambient light sensors
- Mobile phones
- Notebooks
- Computers
- Cameras
- PDA's

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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
78	TEMT6000	F	-----	-----	±60	0.05	10	570	-----	-----	1.13	.87	.61	.56
782	TEMT6200F	F	-----	-----	±60	0.03	4.6	550	-----	-----	.74	.59	.49	.43
782	TEMD6010FX01	G	16	100	±60	0.03	1	540	60	-----	1.76	1.32	1.03	.88
782	TEMD6200FX01	F	16	100	±60	5	0.04	540	60	150/150	.79	.63	.52	.46

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