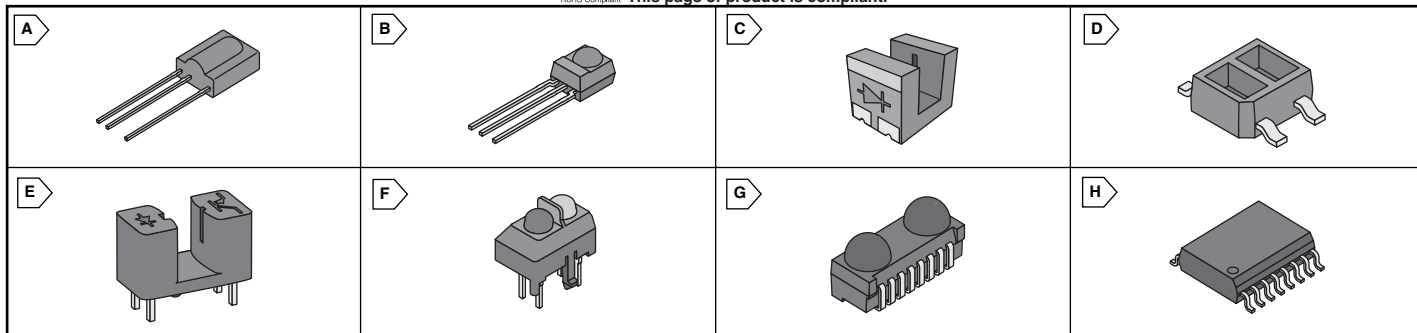# VISHAY Opto Components

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

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RECEIVERS (CONT.)

RoHS Compliant
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)	Cont. Data Trans.	Power Consumption (mW)	Directivity (°)	Burst Length Cycles/Burst	Price Each			
Mfr.	Mfr. Part No.										1	100	500	1000
Thru-Hole														
782—	TSOP1156	A	4.5 to 5.5	1.2	56.0	35.0	4000 bits/sec	50.0	+/- 45	=>6	1.16	.93	.77	.67
782—	TSOP2136	A	4.5 to 5.5	1.2	36.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67
782—	TSOP2138	A	4.5 to 5.5	1.2	38.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67
782—	TSOP2156	A	4.5 to 5.5	1.2	56.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67
782—	TSOP4136	A	4.5 to 5.5	1.2	36.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67
782—	TSOP4138	A	4.5 to 5.5	1.2	38.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67
782—	TSOP4156	A	4.5 to 5.5	1.2	56.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67
782—	TSOP1236	A	4.5 to 5.5	0.6	36.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64
782—	TSOP2236	B	4.5 to 5.5	1.2	36.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64
782—	TSOP2238	B	4.5 to 5.5	1.2	38.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64
782—	TSOP2256	B	4.5 to 5.5	1.2	56.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64
782—	TSOP4830	B	4.5 to 5.5	1.1	30.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64
782—	TSOP4836	B	4.5 to 5.5	1.1	36.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64
782—	TSOP4838	B	4.5 to 5.5	1.1	38.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64
782—	TSOP4840	B	4.5 to 5.5	1.1	40.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64
782—	TSOP4856	B	4.5 to 5.5	1.1	56.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64

SENSORS

RoHS Compliant
For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.		Fig.	VCEO (min) (V)	@ IC (mA)	Forward Voltage (typ.)(V)	Reverse Current (max.)(uA)	Resolution (mm)	Aperture (mm)	Dist./Gap (mm)	Rise/Fall Times (typ.)(us)	Price Each			
Mfr.	Mfr. Part No.										1	100	500	1000
Surface Mount														
782—	TCPT1200	C	70	1	1.2	10.0	0.24	0.3	2.0	20/30	1.31	1.05	.86	.76
782—	TCNT1000	D	30	1	1.2	10.0	-----	-----	1.0	20/20	1.34	1.07	.88	.78
Thru-Hole														
782—	TCST1230	E	70	1	1.25	-----	0.4	0.5	3.0	15/10	.74	.59	.49	.43
782—	TCRT5000	F	70	1	1.25	-----	-----	-----	12.0	-----	.76	.60	.50	.44

IrDA -TRANSCEIVERS

RoHS Compliant
For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.		Fig.	Type	Operating Voltage (V)	Input Currents (mA)	Data Rate (min/max) (kbits/s)	Transmit Distance (m)	Logic Voltage (V)	Output Sink Current (mA)	Power Dissipation (max)(mW)	Price Each			
Mfr.	Mfr. Part No.										1	100	500	1000
Surface Mount														
782—	TFDU4101	G	Serial	2.4 to 5.5	10	2.4/115.2	0 to 1.0	Vlog=VCC	25.0	250.0	4.72	3.77	3.11	2.74
782—	TFDU4300	G	Serial	2.4 to 5.5	10	2.4/115.2	0 to 0.7	Vlog=> 1.5V	25.0	250.0	2.42	1.94	1.60	1.41
782—	TFDU5103	G	Fast	2.7 to 5.5	10	576/1152	0 to 1.0	Vlog=VCC	25.0	500.0	3.47	2.77	2.29	2.01
782—	TFDU5307	G	Fast	2.7 to 5.5	10	576/1152	0 to 0.7	Vlog=> 1.5V	25.0	500.0	3.83	3.06	2.52	2.22
782—	TFDU6102	G	Fast	2.7 to 5.5	10	-----/4000	0 to 1.0	Vlog=VCC	25.0	500.0	3.83	3.06	2.52	2.22
782—	TFBS6614	G	Fast	2.7 to 5.5	10	-----/4000	0 to 1.0	Vlog=> 1.5V	25.0	500.0	3.95	3.16	2.61	2.29

IrDA -ENCODER/DECODER

The TOIM4232 Endec IC provides proper pulse shaping for the SIR IrDA front end infrared transceivers as of the 4000-series. For transmitting the TOIM4232 shortens the RS232 output signal to IrDA compatible electrical pulses to drive the infrared transmitter. In the receive mode the TOIM4232 stretches the received infrared pulse to the proper bit width depending on the operating bit rate. The IrDA bit rate varies from 2.4 kbit/s to 115.2 kbit/s. The TOIM4232 is using a crystal clock 3.6864 MHz for its pulse stretching and shortening. The clock can be generated by the internal oscillator. An external oscillator can be used too. The TOIM4232 is programmable to operate from 1200 bit/s to 115.2 kbit/s by the communication software through the RS232 port. The output pulses are software programmable as either 1,627 us or 3/16 of bit time. The typical power consumption is very low with about 10 mW in operational state and in the order of a few microwatts in standby mode.

RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.		Fig.	Type	Operating Voltage (V)	Input Voltage (High/Low) (Typ) (V)	Output Voltage High/Low (Min/Max) (V)	Data Rate (Min/Max) (kbits/s)	Consumption Current Standby (Max) (nA)	Consumption Current Dynamic (Typ) mA	Price Each			
Mfr.	Mfr. Part No.									1	100	500	1000
Surface Mount													
782—	TOIM4232	H	Serial	2.7 to 3.6	1.7/1.1	2.0/0.4	2.4/115.2	1.0	2.0	5.74	4.59	3.79	3.33