

# SHARP Microelectronics Optocouplers



Opto Components

Sharp

## SHARP PHOTOTRIACS COUPLERS

Zero crossing functionality (VOX : MAX. 20V)

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Package	Absolute Max Ratings			Electro-optical Characteristics		Price Each			
		(rms) (A)	VDRM (V)	Viso(rms)(kV)	Ift(mA) MAX.	VD (V)	1	10	100	500
852-PC4SD21YXPCF	DIP 6-Pin	0.1	800	5.0	5	20	.94	.85	.78	.72
852-PC4SF21YTZBF	DIP 6-Pin	0.1	800	5.0	10	10	1.16	1.04	.946	.867
852-S2S3LA0F	Mini-flat 4-Pin	0.05	600	3.75	10	6	.58	.53	.48	.45
852-S2S4A00F	Mini-flat 4-Pin	0.05	600	3.75	10	6	.52	.47	.43	.40
852-S2S4LY0F	Mini-flat 4-Pin	0.05	600	3.75	10	6	.70	.64	.58	.54

## SHARP PHOTOINTERRUPTERS

Slot Type

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Package	Gap Width	Slit Width	Forward Current	Forward Voltage	Power Dissipation	Output		Price Each			
							Voltage	Current	1	10	100	500
852-GP1A05AJ000F	34x18x11mm	5.0mm	0.5mm	30mA	5V	-	-0.5 to 28V	50mA	1.60	1.29	1.05	.96
852-GP1A50HRJ00F	25x10x6mm	3.0mm	0.5mm	50mA	5V	75mW	-0.5 to 17V	50mA	1.02	.93	.85	.78
852-GP1A52HRJ00F	12.2x10x5mm	3.0mm	0.5mm	50mA	1.2V	75mW	-0.5 to 17V	50mA	1.00	.91	.83	.77
852-GP1A52LRJ00F	12.2x10x5mm	3.0mm	0.5mm	50mA	1.2V	250mW	-0.5 to 17V	50mA	1.00	.91	.83	.77
852-GP1A57HRJ00F	18.6x15.2x5mm	1.0mm	1.8mm	50mA	1.2V	250mW	-0.5 to 17V	50mA	1.56	1.42	1.30	1.20
852-GP1S092HCP1F	4.5x2.6x2.9mm	2mm	0.3mm	50mA	1.2V	100mW	35V CEO	20mA	.53	.44	.35	.28
852-GP1S094HCZ0F	5.5x2.6x4.8mm	2mm	0.3mm	50mA	1.2V	75mW	35V CEO	20mA	.55	.53	.51	.47
852-GP1S44S1J00F	-	With attached Actuator	-	20mA	5V	75mW	35V CEO	20mA	1.98	1.80	1.65	1.52

Flat Type

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Style	Distance (White Paper)	Distance (Black Paper)	Forward Current	Forward Voltage	Power Dissipation	Output		Price Each			
							Voltage	Current	1	10	100	500
852-GP2A200LCS0F	W/ Connector	2 - 22mm	5 - 15mm	30mA	5V	-	30V	50mA	4.14	3.76	3.45	2.79
852-GP2A231LRSAF	W/ Connector	1 - 9mm	3 - 7mm	20mA	5V	-	7V	50mA	3.28	2.98	2.73	2.52
852-GP2A25J0000F	W/ Connector	1 - 9mm	3 - 7mm	30mA	5V	-	30V	50mA	3.60	3.21	2.95	2.67
852-GP2S60B	Surface Mount	0.7mm	-	50mA	1.2V	75mW	35V CEO	20mA	.53	.43	.34	.28

## SHARP AMBIENT LIGHT SENSORS



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Rise/Fall Time (µs-ms)(ms-ms-µs)		Operating Voltage (Vcc)	Output Current (µA)	Peak Sensitivity (nm)	Illuminance/Dynamic Range (lx)	Operating Temperature	Price Each			
	Rise	Fall						1	10	100	200
852-GA1A1S201WP	150-5	150-15	2.3-3.2 V	30	555	3-55000	-40 to 85 °C	.58	.56	.53	.50
852-GA1A1S202WP	150-5	150-15	2.3-3.2 V	1	555	3-55000	-40 to 85 °C	.96	.82	.75	.65
852-GA1A1S203WP	150-5	150-15	2.3-3.2 V	1	555	3-55000	-40 to 85 °C	.96	.80	.72	.64
852-GA1A1S204WP	150-5	150-15	2.3-3.2 V	1	555	3-55000	-40 to 85 °C	.96	.85	.80	.75
852-GA1A2S100LY	10-2-500	10-1-250	2.7-3.6 V	480	555	10-10000	-40 to 85 °C	.96	.80	.72	.64
852-GA1A2S100SS	10-2-500	10-1-250	2.7-3.6 V	480	555	10-10000	-40 to 85 °C	.96	.85	.80	.77

## SHARP PHOTO TRANSISTOR OUTPUT

MOUSER STOCK NO.	Sharp Part No.	Current Transfer Ratio				Output		Price Each			
		Min (%)	Max (%)	@ Vce	@ If	Vceo Max.	Ic Max.	1	10	100	500
<b>DIP-4 Gull Wing</b>											
852-PC12310NSZ0F	PC12310NSZ0F	50	400	5V	5mA	70V	50mA	.46	.381	.304	.247
852-PC123AJ0000F	PC123AJ0000F	50	400	5V	5mA	70V	50mA	.46	.381	.304	.247
852-PC123BJ0000F	PC123BJ0000F	50	400	5V	5mA	70V	50mA	.46	.381	.304	.247
852-PC123F2J000F	PC123F2J000F	50	400	5V	5mA	70V	50mA	.49	.403	.321	.261
852-PC123FYJ000F	PC123FYJ000F	50	400	5V	5mA	70V	50mA	.54	.448	.357	.29
852-PC123J00000F	PC123J00000F	50	400	5V	5mA	70V	50mA	.41	.336	.268	.218
852-PC123PJ0000F	PC123PJ0000F	50	400	5V	5mA	70V	50mA	.43	.358	.286	.232
852-PC12311NSZ0F	PC12311NSZ0F	50	400	5V	5mA	70V	50mA	.30	.281	.257	.216
852-PC1232Y2J00F	PC1232Y2J00F	50	400	5V	5mA	70V	50mA	.43	.358	.286	.232
<b>SOP-4</b>											
852-PC354NJ0000F	PC354NJ0000F	20	400	-	1mA	80V	50mA	.46	.381	.304	.247
852-PC355NJ0000F	PC355NJ0000F	120	1500	2V	1mA	35V	80mA	.65	.538	.429	.348
852-PC355NTJ000F	PC355NTJ000F	120	1500	2V	1mA	35V	80mA	.76	.627	.50	.406
852-PC357N1TJ00F	PC357N1TJ00F	50	600	5V	5mA	80V	50mA	.54	.448	.357	.29
852-PC357N2J000F	PC357N2J000F	50	600	5V	5mA	80V	50mA	.46	.381	.304	.247
852-PC357N3TJ00F	PC357N3TJ00F	50	600	5V	5mA	80V	50mA	.51	.426	.339	.276
852-PC357N4J000F	PC357N4J000F	50	600	5V	5mA	80V	50mA	.46	.381	.304	.247
852-PC357N4TJ00F	PC357N4TJ00F	50	600	5V	5mA	80V	50mA	.54	.448	.357	.29
852-PC357NJ0000F	PC357NJ0000F	50	600	5V	5mA	80V	50mA	.43	.358	.286	.232
852-PC357NTJ000F	PC357NTJ000F	50	600	5V	5mA	80V	50mA	.46	.381	.304	.247
852-PC364NJ0000F	PC364NJ0000F	60	1200	2V	0.5mA	35V	80mA	.62	.515	.411	.334
852-PC365NJ0000F	PC365NJ0000F	60	1200	2V	0.5mA	35V	80mA	.54	.448	.357	.29
852-PC367N2TJ00F	PC367N2TJ00F	60	1200	2V	0.5mA	80V	50mA	.51	.426	.339	.276
852-PC367NJ0000F	PC367NJ0000F	60	1200	2V	0.5mA	80V	50mA	.46	.381	.304	.247
852-PC367NTJ000F	PC367NTJ000F	60	1200	2V	0.5mA	80V	50mA	.49	.403	.321	.261
852-PC3H410NIP0F	PC3H410NIP0F	50	400	-	0.5mA	-	-	.62	.515	.411	.334
852-PC3H411NIP0F	PC3H411NIP0F	50	400	-	0.5mA	-	-	.62	.515	.411	.334
852-PC3H4J00000F	PC3H4J00000F	20	400	-	1mA	80V	50mA	.46	.381	.304	.247
852-PC3H5J00000F	PC3H5J00000F	120	1500	2V	1mA	35V	80mA	.57	.47	.375	.305
852-PC3H711NIP0F	PC3H711NIP0F	100	700	5V	0.5mA	80V	50mA	.54	.448	.357	.29
852-PC3H712NIP0F	PC3H712NIP0F	100	700	5V	0.5mA	80V	50mA	.54	.448	.357	.29
852-PC3H7CDJ000F	PC3H7CDJ000F	20	400	5V	1mA	80V	50mA	.43	.358	.286	.232
852-PC3H7DJ0000F	PC3H7DJ0000F	20	400	5V	1mA	80V	50mA	.46	.381	.304	.247
<b>DIP-4</b>											
852-PC81510NSZ0F	PC81510NSZ0F	60	1200	2V	0.5mA	35V	-	.65	.538	.429	.348
852-PC815XJ0000F	PC815XJ0000F	60	1200	2V	0.5mA	35V	-	.68	.66	.554	.45
852-PC815XYJ000F	PC815XYJ000F	60	1200	2V	0.5mA	35V	-	.46	.45	.43	.41
852-PC81710NIP0F	PC81710NIP0F	50	600	5V	5mA	80V	50mA	.51	.426	.339	.276
852-PC81710NSZ0F	PC81710NSZ0F	50	600	5V	5mA	80V	50mA	.43	.358	.286	.232
852-PC81711NIP0F	PC81711NIP0F	50	600	5V	5mA	80V	50mA	.54	.448	.357	.29
852-PC81712NIP0F	PC81712NIP0F	50	600	5V	5mA	80V	50mA	.54	.448	.357	.29
852-PC81713NIP0F	PC81713NIP0F	50	600	5V	5mA	80V	50mA	.51	.426	.339	.276
852-PC81713NSZ0F	PC81713NSZ0F	50	600	5V	5mA	80V	50mA	.43	.358	.286	.232
852-PC817X1J000F	PC817X1J000F	50	600	5V	5mA	80V	50mA	.36	.269	.214	.174
852-PC817X2J000F	PC817X2J000F	50	600	5V	5mA	80V	50mA	.36	.269	.214	.174
852-PC817X3J000F	PC817X3J000F	50	600	5V	5mA	80V	50mA	.36	.269	.214	.174
852-PC817X4J000F	PC817X4J000F	50	600	5V	5mA	80V	50mA	.36	.269	.214	.174
852-PC817X7J000F	PC817X7J000F	50	600	5V	5mA	80V	50mA	.39	.291	.232	.189
852-PC817X9J000F	PC817X9J000F	50	600	5V	5mA	80V	50mA	.39	.291	.232	.189
852-PC817X11J00F	PC817X11J00F	50	600	5V	5mA	80V	50mA	.39	.291	.232	.189
852-PC817X12J00F	PC817X12J00F	50	600	5V	5mA	80V	50mA	.39	.291	.232	.189
852-PC817X1J000F	PC817X1J000F	50	600	5V	5mA	80V	50mA	.36	.269	.214	.174
852-PC817XJ0000F	PC817XJ0000F	50	600	5V	5mA	80V	50mA	.33	.246	.196	.16
852-PC817XP7J00F	PC817XP7J00F	50	600	5V	5mA	80V	50mA	.41	.336	.268	.218
852-PC817XPJ000F	PC817XPJ000F	50	600	5V	5mA	80V	50mA	.42	.314	.25	.203
852-PC852XJ0000F	PC852XJ0000F	200	3000	2V	1mA	350V	50mA	.65	.538	.429	.348
852-PC853XJ0000F	PC853XJ0000F	200	3000	2V	1mA	350V	50mA	.68	.56	.446	.363
852-PC853XJ0000F	PC853XJ0000F	200	3000	2V	1mA	350V	50mA	.62	.515	.411	.334