

Miniature Panel Mount Encoders

Fig.	Supply Voltage Max. (V)	Supply Current Max. (mA)	Counts per Revolution (CPR)	Shaft Length x Diameter (Inch)	Termination	Digi-Key Part No.	Price Each			Avago Part No.
							1	10	100	
6	5.5	40	Smooth 120	0.50 x 0.25	Pins Rear with Bracket	516-2115-ND	28.25	25.12	20.10	HRPG-ASCA#14R
	5.5	40	Smooth 120	0.50 x 0.25 D-Cut	Pins Rear with Bracket	516-2117-ND	28.25	25.12	20.10	HRPG-ASCA#16R
7	5.5	40	Detented 32	0.50 x 0.25 D-Cut	Connector with Strain Relief	516-2113-ND	28.25	25.12	20.10	HRPG-AD32#16C
	5.5	40	Smooth 120	0.50 x 0.25	Connector with Strain Relief	516-2114-ND	28.25	25.12	20.10	HRPG-ASCA#14C
	5.5	40	Smooth 120	0.50 x 0.25 D-Cut	Connector with Strain Relief	516-2116-ND	28.25	25.12	20.10	HRPG-ASCA#16C

Surface Mount Proximity Sensor

Fig.	Forward Voltage	If (Maximum)	Supply Voltage (Maximum)	Photo Current (Typical)	Dark Current (Maximum)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,500	Avago Part No.
							1	10	100			
8	1.5V	50mA	1.3V	0.1mA	10nA	516-1555-1-ND	2.26	1.99	1.69	516-1555-2-ND	964.89/M	HSDL-9100-021

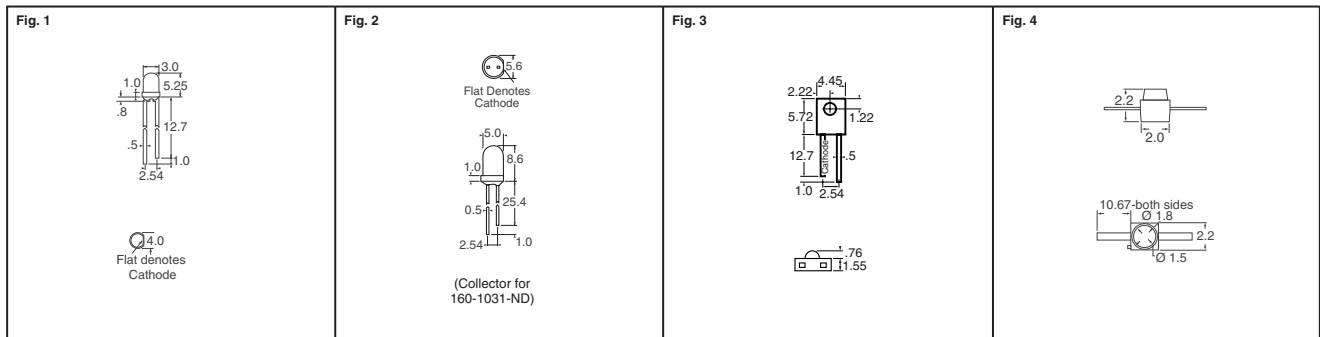
Ambient Light Sensors

Fig.	Supply Voltage Range	Light Current Ratio (Typical)	Rise/Fall Time (ms) (Typical)	Peak Wavelength Sensitivity (nm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,500	Avago Part No.
						1	10	100			
9	2.4V ~ 5.5V	1.2	0.95 / 0.8	620	516-1714-1-ND	.86	.73	.63	516-1714-2-ND	375.88/M	APDS-9002-021
10	2.4V ~ 5.5V	1.2	0.95 / 0.8	620	516-1715-1-ND	.99	.85	.72	516-1715-2-ND	433.71/M	APDS-9003-020
11	2.4V ~ 5.5V	1.2	0.95 / 0.8	620	516-1716-1-ND	1.02	.88	.75	516-1716-2-ND	448.16/M	APDS-9004-020
12	1.8V ~ 5.5V	1.1	5 / 5	500	516-1717-1-ND	1.06	.90	.77	516-1717-2-ND	462.62/M	APDS-9005-020
13	2.4V ~ 5.5V	1.1	5 / 5	500	516-1718-1-ND	1.19	1.02	.87	516-1718-2-ND	520.45/M	APDS-9006-020
14	2.0V ~ 3.6V	1.2	0.2 / 0.2	560	516-1719-1-ND	.87	.78	.62	516-1719-2-ND	318.05/M	APDS-9007-020
15	2.4V ~ 3.0V	—	300ns / 300ns	640 / 940	516-2134-1-ND	1.55	1.37	1.16	516-2134-2-ND	536.97/M	APDS-9300-020

LITEON Infrared Emitting Diodes, Photodetectors and Photodiodes

FEATURES: Infrared Emitting Diodes: • Selected to specific on-line intensity and radiant intensity ranges • Low cost plastic end looking package • Made with gallium aluminum arsenide window layer on gallium arsenide infrared emitting diodes **Photodetectors and Photodiodes:** • Lensed for high sensitivity • Low cost plastic package

Dimensions in mm



Infrared Emitting Diodes

Fig.	Vf	I (ma)	View Angle	Peak Length (nm)	Digi-Key Part No.	Pricing			Lite-On Part No.
						1	10	100	
1	1.20	60	20°	940	160-1028-ND	.45	3.24	21.15	LTE-4206
	1.20	50	20°	940	160-1029-ND	.45	3.24	21.15	LTE-4208
2	1.20	100	40°	940	160-1061-ND	.45	3.24	21.15	LTE-5208A
	1.30	100	35°	940	160-1062-ND	.41	3.22	23.13	LTE-5228A
3	1.20	50	40°	940	160-1063-ND	.45	3.24	21.15	LTE-302

‡ Cut Tape † Tape and Reel

Matching Photodetectors

Fig.	Vce	Vec	On-State I (ma)	Rise/Fall (us)	Digi-Key Part No.	Pricing			Lite-On Part No.
						1	10	100	
1	30	5	2	5	160-1030-ND	.36	2.48	16.52	LTR-4206E
2	30	5	2	5	160-1031-ND	.42	3.04	19.83	LTR-3208E
3	30	5	1	5	160-1065-ND	.42	3.04	19.83	LTR-301

Photodiodes

Fig.	Description	Digi-Key Part No.	Pricing			Lite-On Part No.
			1	10	100	
4	Black Plastic Diode	160-1032-ND	.58	4.49	32.01	LTR-516AD

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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