

FAIRCHILD Optoelectronic Products



Products may be RoHS compliant. Check mouser.com for RoHS status.

INFRARED INTERRUPTER SWITCHES

Photo Transistor

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.		Fig.	Aperture Width (In.) LED/Sensor	Min I _C On @ 20mA/5V	BV CEO (V)	Price Each		
Mfr.	Mfr. Part No.					1	100	250
512—H21A1		A	.94/.94	1.0mA	30	.96	.68	.51
512—H21A2		A	.94/.94	2.0mA	30	.84	.676	.50
512—H22A1		B	.94/.94	1.0mA	30	1.02	.685	.514
512—H22A2		B	.94/.94	2.0mA	30	.95	.666	.50
512—QVE00034		-	.50/.50	0.5mA	30	1.29	.79	.514
512—QVE00118		-	.50/.50	0.5mA	30	1.02	.736	.618

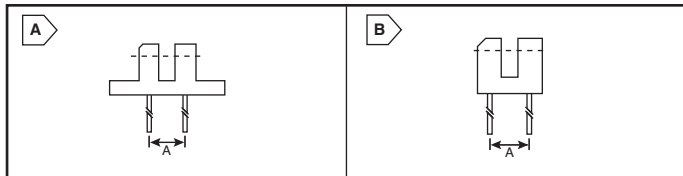


Photo Darlington

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MOUSER STOCK NO.		Fig.	Aperture Width (In.) LED/Sensor	Min I _C On @ 10mA/1.5V	BV CEO (V)	Price Each		
Mfr.	Mfr. Part No.					1	100	250
512—H21B1		A	.94/.94	7.5mA	30	.85	.571	.428
512—H22B1		B	.94/.94	14.0mA	30	.85	.571	.428
512—H22B2		B	.94/.94	25.0mA	30	.85	.687	.67

Optologic™

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.		Hysteresis Ratio Typ. I _F (+)/I _F (-)	Threshold Current		Price Each		
Mfr.	Mfr. Part No.		Turn On	Turn Off	1	100	250
512—H21LOB		1.2	15mA	0.5mA	1.02	.818	.736
512—H21LOI		1.	15mA	0.5mA	1.02	.742	.557
512—H22LOI		1.2	15mA	0.5mA	1.29	.899	.799
512—H22LTI		1.3	15	0.5mA	1.60	.899	.799
512—QVE00112		-	-	-	1.87	1.33	1.11
512—QVE00120		-	-	-	1.43	1.02	.863

INFRARED EMITTING DIODES AND PHOTO DETECTORS

Infrared Emitting Diodes

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.		Fig.	Max. Fwd Volt	Emission Wave-Length	Beam Angle ±	Price Each		
Mfr.	Mfr. Part No.					1	100	250
512—LED56		A	1.7V	940	10	1.71	1.20	1.10
512—QEB363		-	1.6V	940	24	.47	.285	.20
512—QEB421		-	1.5V	880	120	.39	.285	.237
512—QEB441TR		-	2.0V	730	120	.79	.561	.476
512—QEC112		B	1.5V	940	24	.18	.133	.114
512—QEC122		B	1.7V	880	16	.26	.19	.161
512—QEC123		B	1.7V	880	16	.28	.20	.17
512—QED123		C	1.7V	880	9	.27	.20	.16
512—QED234		C	1.5V	940	20	.20	.14	.12
512—QEE113		D	1.5V	940	25	.28	.199	.171
512—QSB320FTR		-	-	880	120	.33	.237	.199
512—QSB34CGR		-	-	940	120	.70	.504	.428
512—QSB34GR		-	-	940	120	.70	.504	.428
512—QSB34ZR		-	-	940	120	.70	.504	.428
512—QSD2030		-	1.3V	880	40	.22	.161	.142
512—QSE773		-	-	920	120	.57	.314	.237

Photo Detectors

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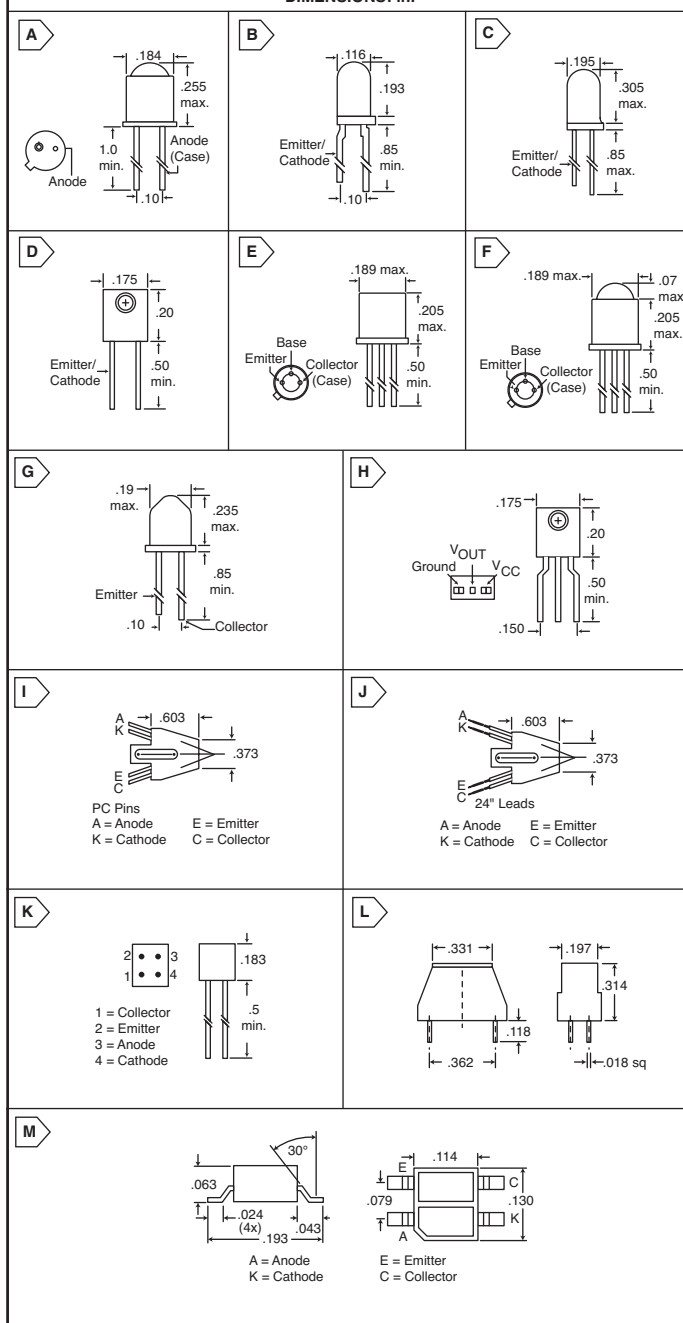
MOUSER STOCK NO.		Fig.	I _C (on) Min.	BV CEO (V)	I _{CEO} V _{CC} /mA (max.)	Price Each		
Mfr.	Mfr. Part No.					1	100	250
Phototransistors								
512—L14C1		E	1mA	45	100	1.30	1.14	1.04
512—L14G1		F	6mA	45	100	1.38	.828	.773
512—QSB363		-	0.7mA	30	100	.47	.285	.20
512—QSB320		-	16IA	30	200	.33	.237	.199
512—QSD122		C	1mA	30	100	.28	.20	.17
512—QSD723		G	2.5mA	30	100	.27	.20	.16
512—QSD724		G	3.5mA	30	100	.27	.20	.16
Photodarlington								
512—QSE133		-	9mA	30	100	.29	.209	.171

OPTOLOGIC™ PHOTOSENSORS

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MOUSER STOCK NO.		Fig.	Positive Threshold mw/cm ²	Function	V _{CC} (V)	Price Each			
Mfr.	Mfr. Part No.					1	25	100	250
512—QSA157		F	0.25	Inv T/P	4.5-16.0	2.44	2.09	1.74	1.46
512—QSA159		F	0.25	Inv O/C	4.5-16.0	1.63	1.57	1.52	1.44
512—QSE156		H	0.25	Inv T/P	4.5-16.0	.60	.457	.342	.252
512—QSE157		H	0.25	Inv T/P	4.5-16.0	.60	.542	.429	.377
512—QSE158		H	0.25	Inv O/C	4.5-16.0	.58	.533	.418	.368
512—QSE159		H	0.25	Inv O/C	4.5-16.0	.58	.437	.323	.244

DIMENSIONS: in.



REFLECTIVE PHOTOSENSORS

RoHS Compliant

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MOUSER STOCK NO.		Fig.	I _{CC} (on) Min.	I _F /V _{CE}	BV CEO (V)	Price Each		
Mfr.	Mfr. Part No.					1	100	250
512—QRB1113		I	.30mA	40mA/5V	30	1.32	.945	.80
512—QRB1114		I	.60mA	40mA/5V	30	1.00	.666	.495
512—QRB1133		J	.20mA	40mA/5V	30	1.83	1.31	1.10
512—QRB1134		J	.60mA	40mA/5V	30	1.37	.914	.685
512—QRD1113		K	.30mA	20mA/5V	30	1.10	.79	.663
512—QRE00034		L	.16mA	20mA/10V	30	1.10	.623	.528
512—QRE1113GR		M	.15mA	20mA/5V	30	.65	.361	.333

