

MATCHED EMITTER/PHOTOSENSOR PAIRS

Part Number	Sensor Family	LED Family	Test Condition	Separation		Units	BV _{CEO}
	(page 93)	(page 94)	($I_C/V_{CE}/D$)	min	max		(V)
Phototransistor/LED Pairs							
QPA1223	L14PX (96)	F5DX (95)	20 mA/5V/.250"	7.5	—	mA	30
QPC1213	QSC11X (93)	QEC12X (91)	20 mA/5V/.250"	5.0	—	mA	30
QPD1223	QSD12X (93)	QED12X (91)	20 mA/5V/.250"	10.0	—	mA	30
QPD5223	QSD72X (93)	QED52X (91)	20 mA/5V/.250"	7.5	—	mA	30
QPE1113	QSE11X (94)	QEE11X (92)	20 mA/5V/.250"	0.30	—	mA	30
H23A1	L14QX (94)	F5FX (92)	30 mA/5V/.155"	1.5	—	mA	30
H23A2	L14QX (94)	F5FX (92)	30 mA/5V/.155"	0.50	—	mA	30
Photodarlington/LED Pairs							
H23B1	L14RX (94)	F5FX (92)	10 mA/1.5V/.155"	7.5	—	mA	30

Part Number	Sensor Family (page #)	LED Family (page #)	Output Configuration	I_{LH} Positive Threshold (mA) max	I_{LH} Hysteresis Ratio typ	V_{CE} (V)	I_C (mA) max	Test Separation Distance (D)
Optologic®/LED Pairs								
H23LTB	L14LTB (99)	F5FX (92)	Buffer Totem Pole	10	1.2	4.5 – 16	12	.155"
H23LTI	L14LTI (99)	F5FX (92)	Inverter Totem Pole	10	1.2	4.5 – 16	12	.155"
H23LOB	L14LOB (99)	F5FX (92)	Buffer Open Collector	10	1.2	4.5 – 16	12	.155"
H23LOI	L14LOI (99)	F5FX (92)	Inverter Open Collector	10	1.2	4.5 – 16	12	.155"
QPA8256	QSA156 (99)	F5DX (95)	Buffer Totem Pole	15	1.2	4.5 – 16	12	.250"
QPA8257	QSA157 (99)	F5DX (95)	Inverter Totem Pole	15	1.2	4.5 – 16	12	.250"
QPA8258	QSA158 (99)	F5DX (95)	Buffer Open Collector	15	1.2	4.5 – 16	12	.250"
QPA8259	QSA159 (99)	F5DX (95)	Inverter Open Collector	15	1.2	4.5 – 16	12	.250"
QPE1256	QSE156 (99)	QEE12X (92)	Buffer Totem Pole	15	1.2	4.5 – 16	12	.250"
QPE1257	QSE157 (99)	QEE12X (92)	Inverter Totem Pole	15	1.2	4.5 – 16	12	.250"
QPE1258	QSE158 (99)	QEE12X (92)	Buffer Open Collector	15	1.2	4.5 – 16	12	.250"
QPE1259	QSE159 (99)	QEE12X (92)	Inverter Open Collector	15	1.2	4.5 – 16	12	.250"

Notes

1. D is from lens tip to lens tip.