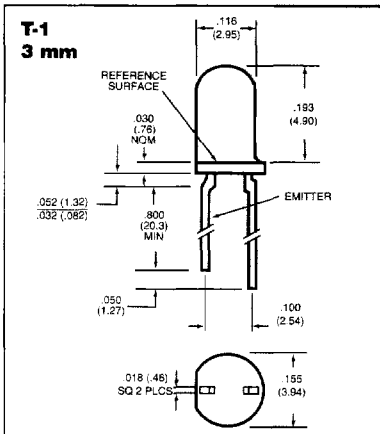
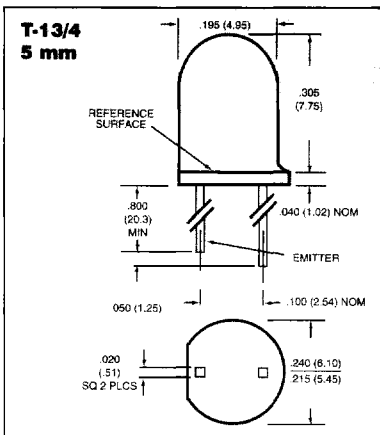


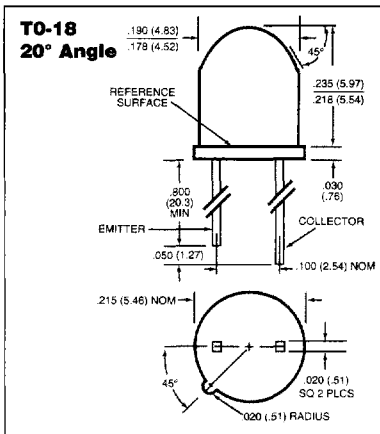
PLASTIC SILICON INFRARED PHOTOSENSORS



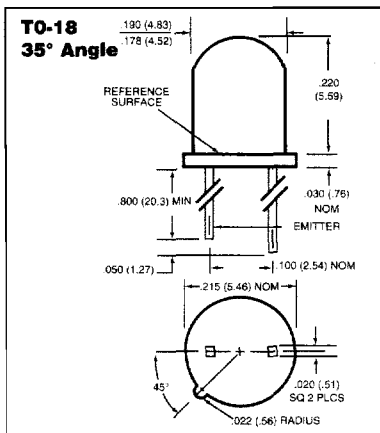
Part Number	Reception Angle		$I_{C(ON)}$		$V_{CE(O)}$ (V)	$I_{CE(O)}/V_{CE}$ (nA)/(V)	Notes	
	1/2	Sensitivity	min	max				units
Phototransistor								
QSC112	$\pm 8^\circ$		1.00	4.00	mA	30	100/10	1
QSC113	$\pm 8^\circ$		2.40	9.60	mA	30	100/10	1
QSC114	$\pm 8^\circ$		4.00	—	mA	30	100/10	1
Photodarlington								
QSC133	$\pm 8^\circ$		8.00	—	mA	30	100/10	3,6,7



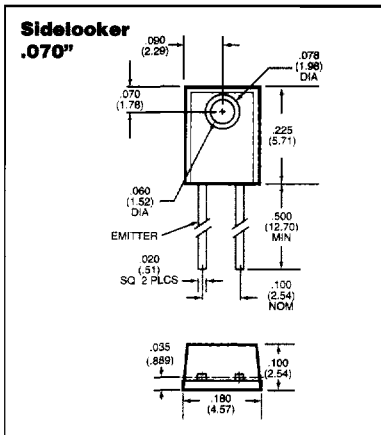
Part Number	Reception Angle		$I_{C(ON)}$		$V_{CE(O)}$ (V)	$I_{CE(O)}/V_{CE}$ (nA)/(V)	Notes	
	1/2	Sensitivity	min	max				units
Phototransistor								
QSD122	$\pm 12^\circ$		1.00	6.00	mA	30	100/10	1
QSD123	$\pm 12^\circ$		4.00	16.0	mA	30	100/10	1
QSD124	$\pm 12^\circ$		6.00	—	mA	30	100/10	1
QSD128	$\pm 12^\circ$		6.00	—	mA	30	100/10	1,6



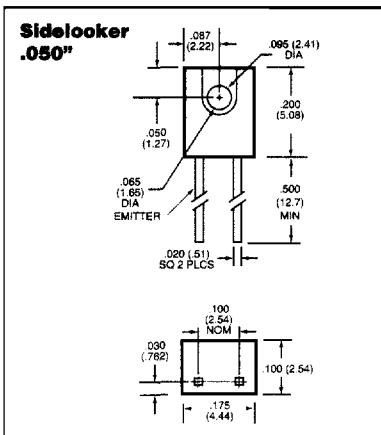
Part Number	Reception Angle		$I_{C(ON)}$		$V_{CE(O)}$ (V)	$I_{CE(O)}/V_{CE}$ (nA)/(V)	Notes	
	1/2	Sensitivity	min	max				units
Phototransistor								
QSD722	$\pm 20^\circ$		0.60	3.80	mA	30	100/10	1
QSD723	$\pm 20^\circ$		2.50	10.0	mA	30	100/10	1
QSD724	$\pm 20^\circ$		3.50	—	mA	30	100/10	1
Photodarlington								
QSD733	$\pm 20^\circ$		5.00	—	mA	30	100/10	5,7



Part Number	Reception Angle		$I_{C(ON)}$		$V_{CE(O)}$ (V)	$I_{CE(O)}/V_{CE}$ (nA)/(V)	Notes	
	1/2	Sensitivity	min	max				units
Phototransistor								
QSD422	$\pm 35^\circ$		0.30	1.80	mA	30	100/10	1
QSD423	$\pm 35^\circ$		1.20	4.80	mA	30	100/10	1
QSD424	$\pm 35^\circ$		1.80	—	mA	30	100/10	1



Part Number	Reception Angle	Sensitivity		I _{CO} (mA)	BV _{CE} (V)	I _{EO} /V _{CE} (μA/V)	Notes
		min	max				
Phototransistor							
L14Q1	±35°	1.00	—	mA	30	100/25	4
Photodarlington							
L14R1	±35°	5.00	—	mA	30	100/25	2



Part Number	Reception Angle	Sensitivity		I _{CO} (mA)	BV _{CE} (V)	I _{EO} /V _{CE} (μA/V)	Notes
		min	max				
Phototransistor							
QSE113	±25°	0.25	1.50	mA	30	100/10	1
QSE114	±25°	1.00	—	mA	30	100/10	1
QSE122	±25°	3.00	12.0	mA	30	100/10	1
Photodarlington							
QSE133	±25°	9.00	—	mA	30	100/10	3

Notes (Applies to all components on pages 33 and 34.)

1. On-State Collector Current @ E_b = 0.5 mW/cm² (AlGaAs), V_{CE} = 5 V
2. On-State Collector Current @ E_b = 0.3 mW/cm² (GaAs), V_{CE} = 1.5 V
3. On-State Collector Current @ E_b = 0.25 mW/cm² (AlGaAs), V_{CE} = 5 V
4. On-State Collector Current @ E_b = 1.5 mW/cm², (GaAs), V_{CE} = 5 V
5. On-State Collector Current @ E_b = 0.125 mW/cm² (AlGaAs), V_{CE} = 5 V
6. Reverse polarity
7. Orange stripe on the flange

Maximum Ratings Table B (Applies to all components on pages 33 and 34.)

Storage Temperature	-40 to +100° C
Operating Temperature	-40 to +100° C
Soldering:	
Lead Temperature (Iron)	240° C for 5 s
Lead Temperature (Flow)	260° C for 10 s
Collector-Emitter Breakdown Voltage	30 V
Emitter-Collector Breakdown Voltage	
(L14R, QSE133)	6.0 V
(QSX, L14Q)	5.0 V
Power Dissipation	150 mW
Derate linearly at 2.00 mW/° C above 25° C	