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QSE773 Sidelooker Pin Photodiode

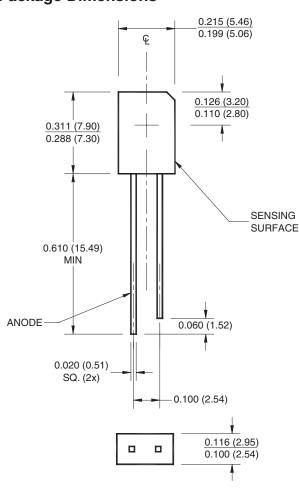
Features

- Daylight filter
- Sidelooker package
- Pin photodiode
- Wide reception angle, 120°
- Chip size = 0.107 sq. inches (2.71 sq. mm)

Package Dimensions

Description

The QSE773 is a plastic silicon pin photodiode in a sidelooker package.





Notes:

1. Dimensions for all drawings are in inches (mm).

2. Tolerance of ±0.010 (0.25) on all non-nominal dimensions unless otherwise specified.

Absolute Maximum Ratings ($T_A = 25^{\circ}C$ unless otherwise noted)

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameters	Value	Units
T _{OPR}	Operating Temperature	-40 to +85	°C
T _{STG}	Storage Temperature	-40 to +85	°C
T _{SOL-I}	Soldering Temperature (Iron) ⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	240 for 5 sec.	°C
T _{SOL-F}	Soldering Temperature (Flow) ⁽⁴⁾⁽⁵⁾⁽⁷⁾	260 for 10 sec	°C
V _R	Reverse Voltage	32	V
PD	Power Dissipation ⁽³⁾	150	mW

Notes:

- 3. Derate power dissipation linearly 2.50mW/°C above 25°C.
- 4. RMA flux is recommended.
- 5. Methanol or Isopropyl alcohols are recommended as cleaning agents.
- 6. Soldering iron tip 1/16" (1.6 mm) from housing.
- 7. As long as leads are not under any stress or spring tension.

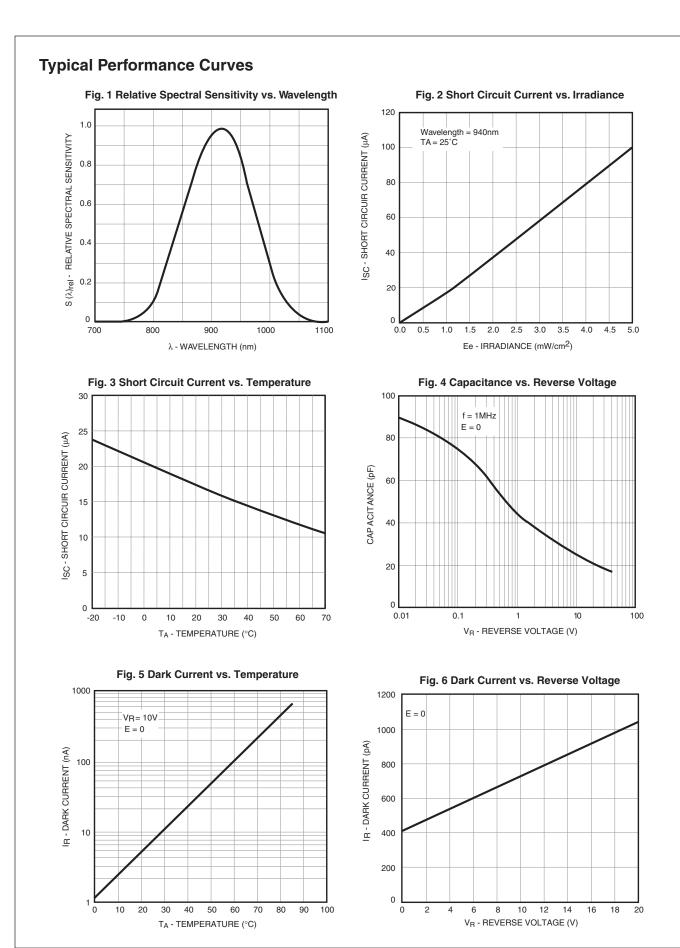
Electrical Characteristics (T_A = 25°C)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Units
V _R	Reverse Voltage	$I_{R} = 0.1 \text{mA}, E_{e} = 0 \text{mW/cm}^{2}$	32			V
I _{R(D)}	Dark Reverse Current	$V_{R} = 10 V, E_{e} = 0 mW/cm^{2}$			30	nA
λ _{PK}	Peak Sensitivity	V _R = 5V		940		nm
Θ	Reception Angle at 1/2 Power			±60		0
I _{PH}	Photo Current ⁽⁸⁾	$E_e = 1.0$ mW/cm ² , $V_R = 5$ V	30			μA
I _{SC}	Short Circuit Current ⁽⁸⁾	$E_e = 1.0 \text{mW/cm}^2$		18		μA
С	Capacitance	V _R = 3V		25		pF
t _r	Rise Time	$V_R = 5V, R_L = 1k\Omega$		50		ns
t _f	Fall Time	$V_R = 5V, R_L = 1k\Omega$		50		ns

Notes:

8. Light source is an GaAs LED which has a peak emission wavelength of 940nm.

9. All measurements made under pulse conditions.



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