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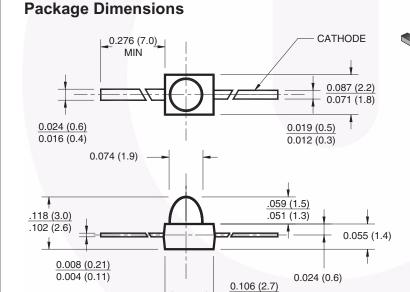
November 2009

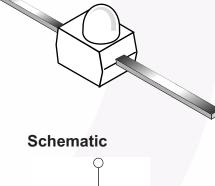


QEB373 Subminiature Plastic Infrared Emitting Diode

Features

- T-3/4 (2mm) Surface Mount Package
- Tape & Reel Option (See Tape & Reel Specifications)
- Lead Form Options: Gullwing, Yoke, Z-Bend
- Narrow Emission Angle, 24°
- Wavelength = 875nm, AlGaAs
- Clear Lens
- Matched Photosensor: QSB363
- High Radiant Intensity





CATHODE

Notes:

- 1. Dimensions are in inches (mm).
- 2. Tolerance of ±.010 (.25) on all non nominal dimensions unless otherwise specified.

0.091 (2.3)

Absolute Maximum Ratings (T_A = 25°C unless otherwise specified)

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.

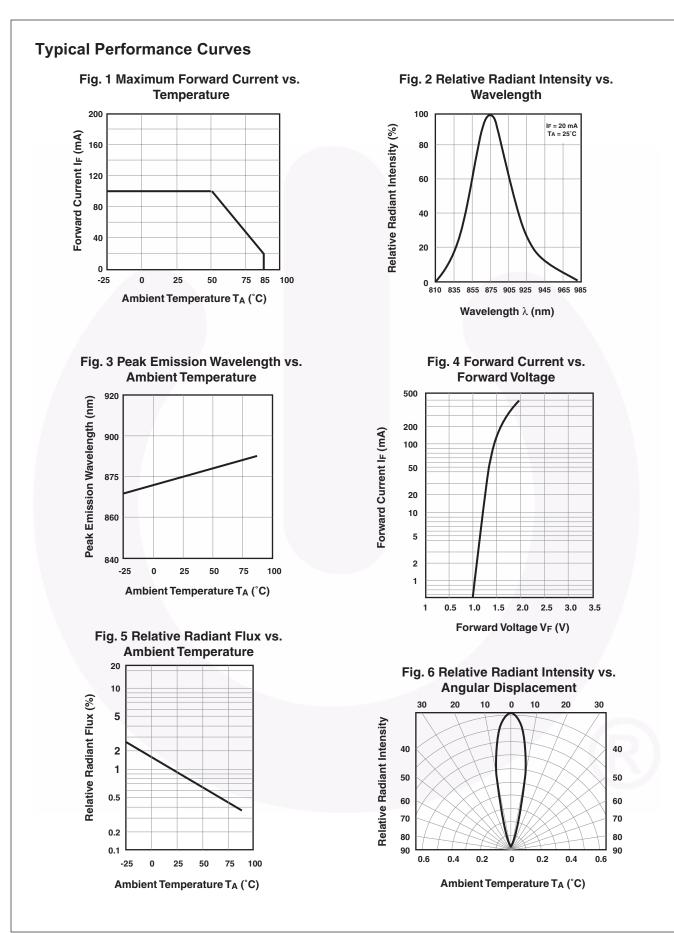
Symbol	Parameter	Rating	Unit	
T _{OPR}	Operating Temperature	-40 to +100	°C	
T _{STG}	Storage Temperature	-40 to +100	°C	
T _{SOL-I}	Soldering Temperature (Iron) ^(2,3,4)	240 for 5 sec	°C	
T _{SOL-F}	Soldering Temperature (Flow) ^(2,3)	260 for 10 sec	°C	
١ _F	Continuous Forward Current	50	mA	
V _R	Reverse Voltage	5	V	
PD	Power Dissipation ⁽¹⁾	100	mW	

Notes:

- 1. Derate power dissipation linearly 1.33mW/°C above 25°C.
- 2. RMA flux is recommended.
- 3. Methanol or isopropyl alcohols are recommended as cleaning agents.
- 4. Soldering iron 1/16" (1.6mm) minimum from housing.

Electrical/Optical Characteristics (T_A = 25°C)

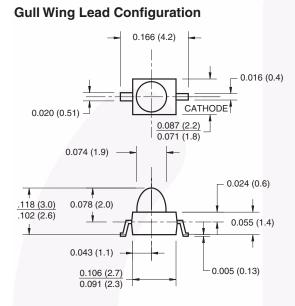
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Units
λρ	Peak Emission Wavelength	I _F = 100mA		875		nm
Θ	Emission Angle	I _F = 100mA		±12		0
V _F	Forward Voltage	I _F = 100mA, t _p = 20ms			1.7	V
I _R	Reverse Current	V _R = 5V			100	μA
l _e	Radiant Intensity	I _F = 100mA, tp = 20ms	16			mW/sr
t _r	Rise Time	I _F = 100mA		800		ns
t _f	Fall Time	t _p = 20ms		800		ns



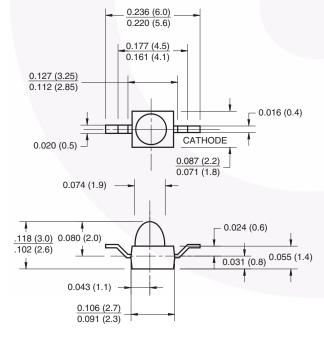
Surface Mount Options for T-3/4 Package

Features

- Three lead forming options: Gull Wing, Yoke and Z-Bend
- Compatible with automatic placement equipment
- Supplied on tape and reel or in bulk packaging
- Compatible with vapor phase reflow solder processes



Z-Bend Lead Configuration

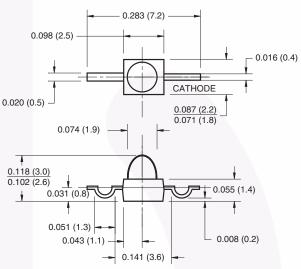


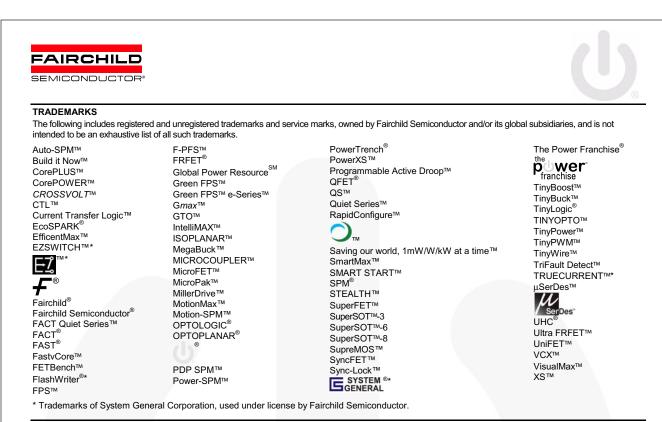
Notes: (Applies to all package drawings)

1. Dimensions are in inches (mm).

2. Tolerance of ±.010 (.25) on all non nominal dimensions unless otherwise specified.

Yoke Lead Configuration





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