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ON Semiconductor®

OED223

Plastic Infrared Light Emitting Diode

eatures

- **λ** = 880nm
- Chip material = AIGaA
- Package type: T-1 3/4 (5mm lens diameter)
- Matched photosensor: QSD123/QSD124
- Medium wide emission angle, 30°
- High output power
- Package material and color: clear, purple tinted, plastic

Package Dimensions

0.195 (4.95) REFERENCE SURFACE 0.305 (7.75) 0.400 (1.02) NOM 0.800 (20.3) MIN 0.800 (20.3) MIN CATHODE 0.050 (1.25) 0.100 (2.54) NOM



Notes:

- 1. Dimensions of all drawings are in inches (mm).
- 2. Tolerance is ±0.010 (0.25) on all non-nominal dimensions unless otherwise specified.

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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.

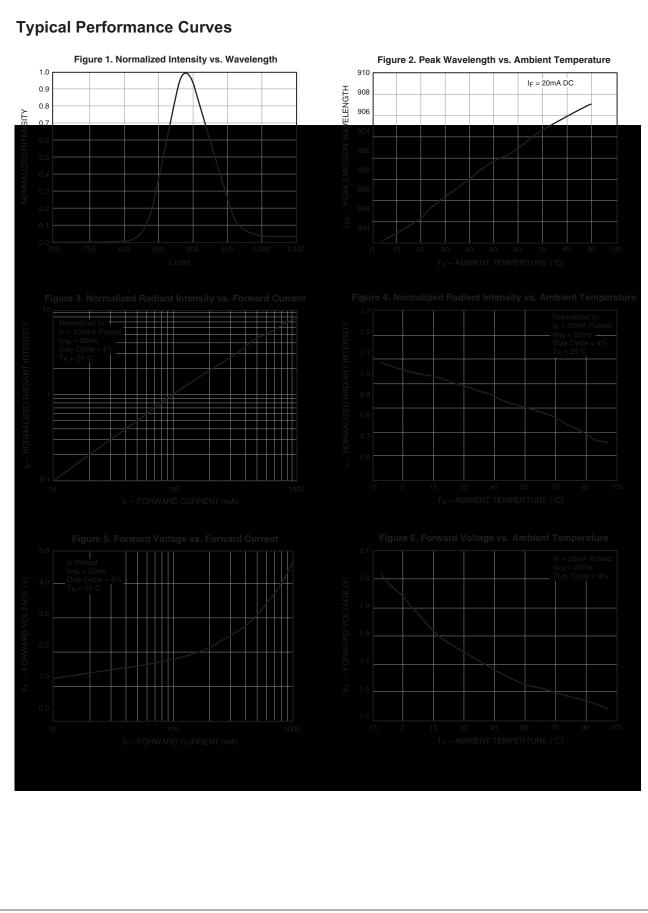
Symbol	Parameter	Rating	Units
T _{OPR}	Operating Temperature	-40 to +100	°C
T _{STG}			
T _{SOL-I}			
T _{SOL-F}			
l _F			
V _R			
P _D			
I _{F(Peak)}			

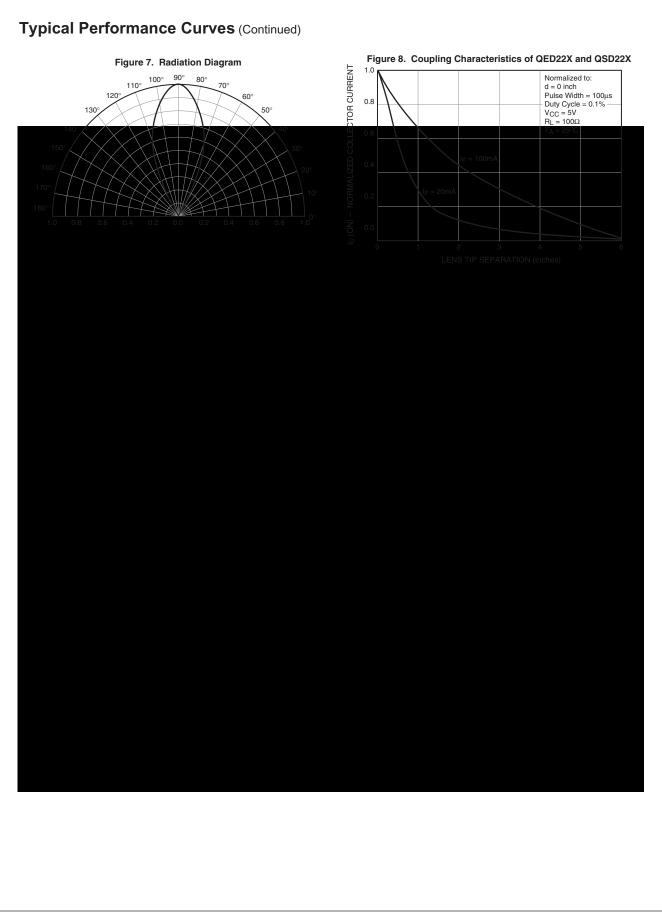
Notes

- . Derate power dissipation linearly 2.67mW/°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.
- 5. Pulse conditions; $tp = 100\mu s$, T = 10ms.

Electrical / Optical Characteristics (T_A = 25°C)

			Units
			nm
			nm/°C
			0
			V
			mV/°C
			μΑ
			mW/sr
			%/°C
			ns
			ns
			pF





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