

使多邦,专业PCB打造工厂,24小时加急出货 CQX14, CQX16 GaAs INFRARED EMITTING DIODE

0.030 (0.76) 0.030 (0.76) NOM 1.00 (25.4) MIN ANODE (CASE) 0.100 (2.54) -0.050 (1.27) 0.040 (1.02) 0.040 (1.02) 0.040 (0.51) 2X

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

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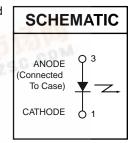
2. Tolerance of \pm .010 (.25) on all non-nominal dimensions unless otherwise specified.

DESCRIPTION

The CQX14/16 are 940 nm LEDs in a narrow angle, TO-46 packages.

FEATURES

- Good optical to mechanical alignment
- Mechanically and wavelength matched to the TO-18 series phototransistor
- · Hermetically sealed package
- High irradiance level
- European "Pro Electron" registered



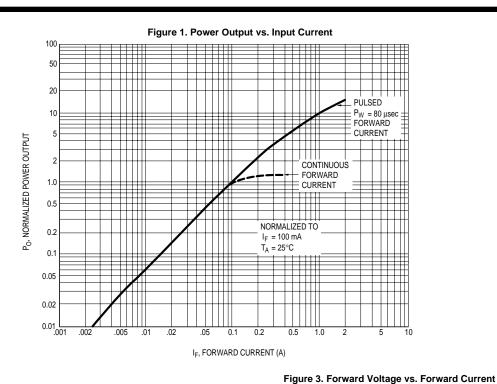
- 1. Derate power dissipation linearly 1.70 mW/°C above 25°C ambient.
- 2. Derate power dissipation linearly 13.0 mW/°C above 25°C case.
- 3. RMA flux is recommended.
- Methanol or isopropyl alcohols are recommended as cleaning agents.
- 5. Soldering iron tip 1/16" (1.6mm) minimum from housing.
- 6. As long as leads are not under any stress or spring tension
- 7. Total power output, P_0 , is the total power radiated by the device into a solid angle of 2 π steradians.

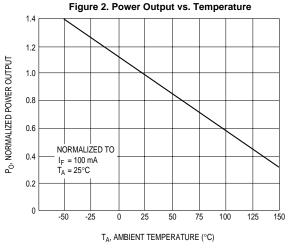
ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise specified)							
Parameter	Symbol	Symbol Rating					
Operating Temperature	T _{OPR}	-65 to +125	°C				
Storage Temperature	T _{STG}	-65 to +150	°C				
Soldering Temperature (Iron)(3,4,5 and 6)	T _{SOL-I}	240 for 5 sec	°C				
Soldering Temperature (Flow)(3,4 and 6)	T _{SOL-F}	260 for 10 sec	°C				
Continuous Forward Current	I _F	100	mA				
Forward Current (pw, 1µs; 200Hz)	I _F	10	Α				
Reverse Voltage	V _R	3	V				
Power Dissipation (T _A = 25°C) ⁽¹⁾	P _D	170	mW				
Power Dissipation (T _C = 25°C) ⁽²⁾	P _D	1.3	W				

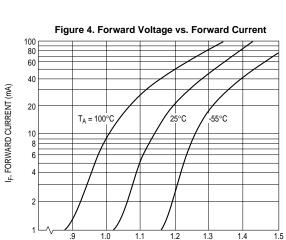
ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C) (All measurements made under pulse conditions)							
PARAMETER	TEST CONDITIONS	SYMBOL	MIN	TYP	MAX	UNITS	
Peak Emission Wavelength	I _F = 100 mA	λ_{P}	_	940	_	nm	
Emission Angle at 1/2 Power	I _F = 100 mA	θ	_	±8	_	Deg.	
Forward Voltage	$I_F = 100 \text{ mA}$	V _F	_	_	1.7	V	
Reverse Leakage Current	V _R = 3 V	I _R	_	_	10	μA	
Total Power CQX14 ⁽⁷⁾	$I_F = 100 \text{ mA}$	Po	5.4	_	_	mW	
Jotal Power CQX16(7)	I _F = 100 mA	Po	1.5	_	_	mW	
Rise Time 0-90% of output		t _r	_	1.0	_	μs	
Fall time 100-10% of output		t _f	_	1.0	-	μs	

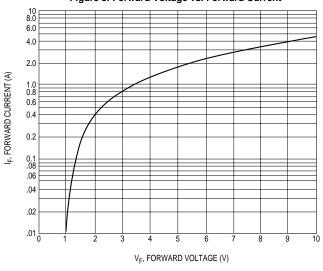


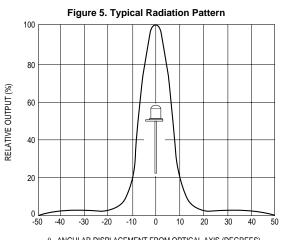
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