

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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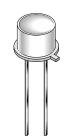
CQX15, CQX17 GaAs INFRARED EMITTING DIODE

PACKAGE DIMENSIONS 0.209 (5.31) 0.184 (4.67) 0.030 (0.76) 0.155 (3.94) NQM MAX 1.00 (25.4) MIN ANODE (CASE) 0.100 (2.54) 0.050 (1.27) 0.040 (1.02) Ø0.020 (0.51) 2X 0.040 (1.02) NOTES:

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

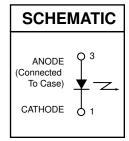
DESCRIPTION

The CQX15 and CQX17 series are 940nm LEDs in a wide angle, TO-46 package.



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



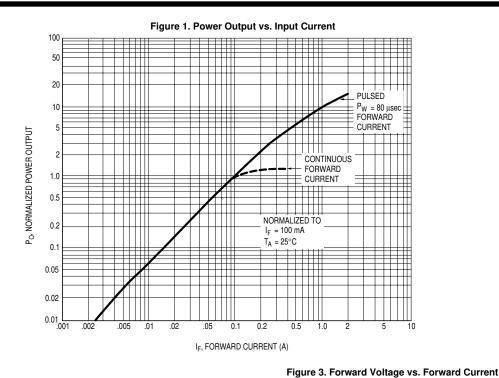
- 1. Derate power dissipation linearly 1.70 mW/°C above 25°C ambient.
- 2. Derate power dissipation linearly 13.0 mW/°C above 25°C case.
- 3. RMA flux is recommended.
- Methanol or isopropyl alcohols are recommended as cleaning agents.
- 5. Soldering iron tip 1/16" (1.6mm) minimum from housing.
- 6.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

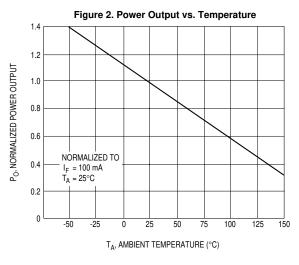
ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise specified)							
Parameter	Symbol	Rating	Unit				
Operating Temperature	T _{OPR}	-65 to +125	°C				
Storage Temperature	T _{STG}	-65 to +150	°C				
Soldering Temperature (Iron)(3,4,5 and 6)	T _{SOL-I}	240 for 5 sec	°C				
Soldering Temperature (Flow)(3,4 and 6)	T _{SOL-F}	260 for 10 sec	°C				
Continuous Forward Current	l _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 ($T_C = 25^{\circ}C$) ⁽²⁾	P _D	1.3	W				

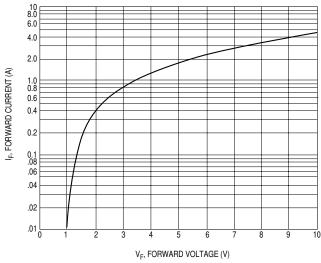
ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C) (All measurements made under pulse conditions)								
PARAMETER	TEST CONDITIONS	SYMBOL	MIN	TYP	MAX	UNITS		
Peak Emission Wavelength	$I_F = 100 \text{ mA}$	λ_{PE}	_	940	_	nm		
Emission Angle at 1/2 Power		θ	_	±40	_	Deg.		
Forward Voltage	$I_F = 100 \text{ mA}$	V_{F}	_	_	1.7	V		
Reverse Leakage Current	$V_R = 3 V$	I _R	_	_	10	μΑ		
Total Power CQX15 (7)	$I_F = 100 \text{ mA}$	Po	5.4	_	_	mW		
Total Power CQX17 (7)	$I_F = 100 \text{ mA}$	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		

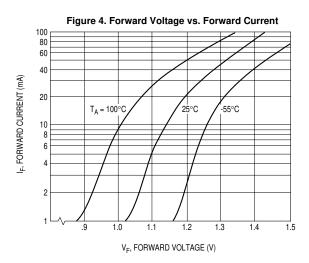


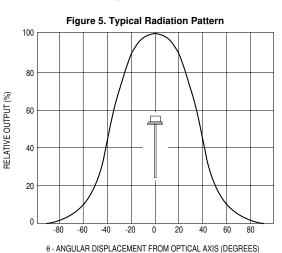
CQX15, CQX17 GaAs INFRARED EMITTING DIODE













CQX15, CQX17 GaAs INFRARED EMITTING DIODE

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