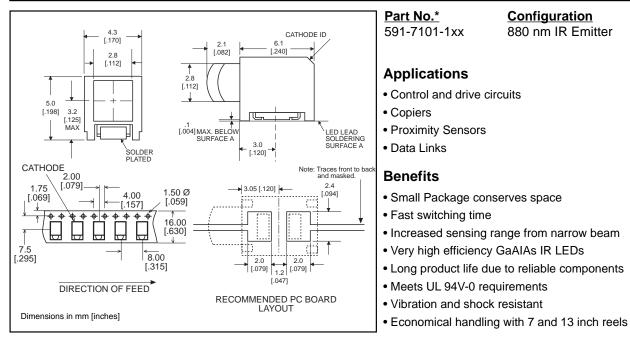
3mm Prism[®] CBI[®] Infrared Emitter True Surface Mount LED

Dialight 591-7101-1xx



U.S. Patent RE 34,254; foreign patents pending

Characteristics (T_A = 25°C) λ = 880 nm

Peak Wavelength (I _F = 100 mA, t _p = 20 ms)	880 ±20 nm
Spectral Bandwidth (50% of I _{REL} , I _F = 100 mA)	80 nm
Full Angle (20 1/2)	30°
Emitting Area Dimensions	0.1 x 0.1 in.
Capacitance (V _R = 0 V, f = 1 MHz)	25 pF
Forward Voltage (I _F = 100 mA, t _p = 20 ms)	1.5 (≤1.8) V
Forward Voltage (I _F = 1 A, $t_p = 100 \ \mu s$)	3.0 (≤3.8) V
Reverse Current (V _R = 5 V)	0.01 (≤1)µA
Total Radiant Flux (I _F = 100 mA, t _p = 20 ms)	10 mW
Radiant Intensity (I _F = 100 mA, t = 20 ms)	6 mW/sr

* ORDERING INFORMATION		
591-7101-1xx		
packaging option		
02	20 pieces on tape	
07	7" reel, 400 pcs/reel	
13	13" reel, 1600 pcs/reel	

Maximum Ratings

Reverse Voltage	5 V	
Forward Current	100 mA	
Surge Current (t = 10 µs, D = 0)	2.5 A	
Total Power Dissipation	180 mW	
Reflow Soldering:		
Temperature at Soldering Zone	Maximum Transit Time	
260° C	10 sec	
215° C	30 sec	
Preheating Temperature (Approximately 1 min)	150° C	
Operating & Storage Temperature	–55° C to +100° C	
Junction Temperature	100°C	