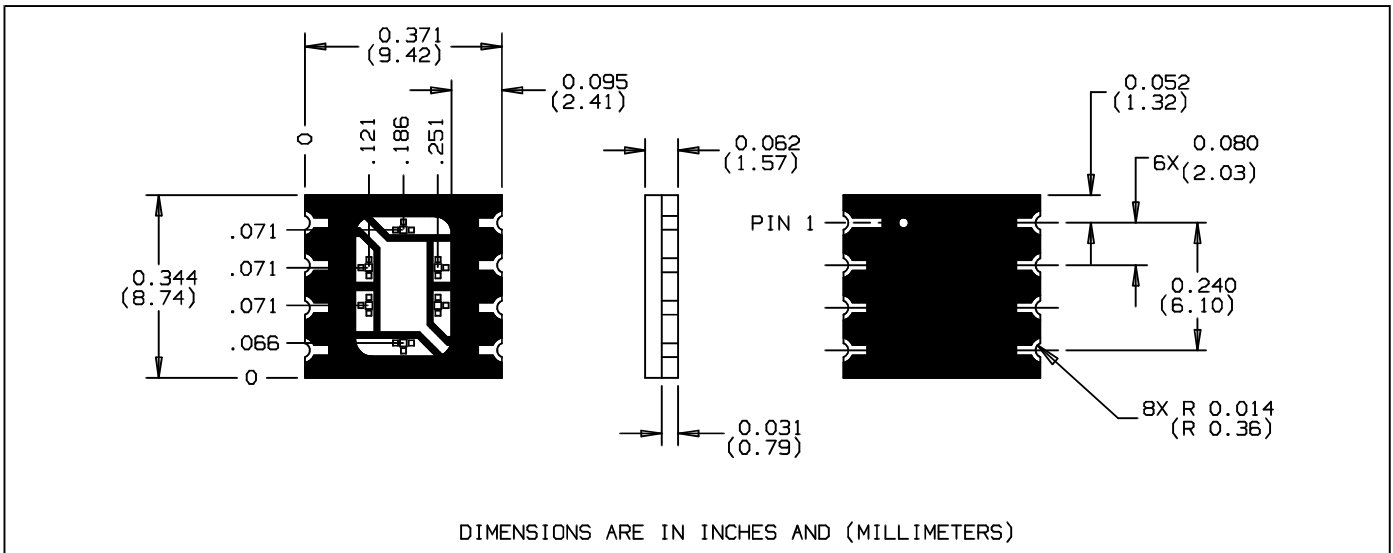


# Six Element SMD LED Array Type OPR2100L



### Features

- Surface mountable
- High temperature operation
- Closely matched emissions
- Matched to OPR2100 Photodiode Array

### Absolute Maximum Ratings (Each channel, $T_A = 25^\circ\text{C}$ unless otherwise noted)

Reverse Voltage	2.0 V
Continuous Forward Current	50 mA
Peak Forward Current (1 $\mu\text{A}$ pulse width, 300 pps)	1.0 A
Storage and Operating Temperature	$-55^\circ\text{C}$ to $+125^\circ\text{C}$
Power Dissipation (derate @ 1.00 $\text{mW}/^\circ\text{C}$ above $25^\circ\text{C}$ )	100 mW

### Description

Enclosed in a compact polyimide chip carrier, this six element LED has been specifically designed to be used as an illuminating source for the OPR2100. The light is spectrally matched to the responsivity for maximum efficiency. The six chips are bonded with common cathodes and individual anodes to allow channel matching. The package can withstand multiple exposures to the most demanding solder conditions. The wrap around solder pads are gold plated for exceptional storage and wetting characteristics.

#### PIN OUT:

PIN#1	ANODE A
2	ANODE F
3	ANODE E
4	COMMON CATHODE
5	ANODE D
6	ANODE C
7	ANODE B
8	COMMON CATHODE

### Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

SYMBOL	PARAMETERS	MIN	TYP	MAX	UNITS	TEST CONDITIONS
$P_O$	Total Optical Power	350			$\mu\text{W}$	$I_F = 20\text{ mA}$
$V_F$	Forward Voltage Drop			1.8	V	$I_F = 20\text{ mA}$
$I_R$	Reverse Leakage Current			100	$\mu\text{A}$	$V_R = 2\text{ V}$
$\lambda$	Peak Wavelength	870		910	nm	$I_F = 20\text{ mA}$
$t_r$	Rise Time			600	ns	$I_P = 100\text{ mA}$
$t_f$	Fall Time			350	ns	$I_P = 100\text{ mA}$