

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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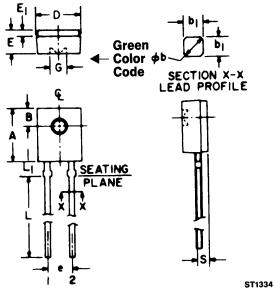




AIGAAS INFRARED EMITTING DIODE

F5G1

PACKAGE DIMENSIONS



<u>.</u>	- e	2 			
SYMBOL	MILLIMETERS		INCHES		NOTES
	MIN.	MAX.	MIN.	MAX.	
Α	5.59	5.80	.220	.228	
В	1.78	NOM.	.070	NOM.	2
® b	.60	.75	.024	.030	1
b,	.51	NOM.	.020	NOM.	1
D	4.45	4.70	.175	.185	
E	2.41	2.67	.095	.105	
Ε,	.58	.69	.023	.027	
е	2.41	2.67	.095	.105	3
G	1.98	NOM.	.078	NOM.	
					_

DESCRIPTION

The F5G1 is an 880nm LED encapsulated in a clear, wide angle, sidelooker package.

FEATURES

- Good optical to mechanical alignment
- Mechanically and wavelength matched to the L14Q series phototransistor
- Plastic package with a color stripe for easy recognition from phototransistor
- High irradiance level

PACKAGE OUTLINE

1.40 1.65 .055



NOTES:

1. TWO LEADS. LEAD CROSS SECTION DIMENSIONS UNCONTROLLED WITHIN 1.27 mm (.050") OF SEATING PLANE.

.065

- 2. CENTERLINE OF ACTIVE ELEMENT LOCATED WITHIN .25 mm (.010") OF TRUE POSITION.

 3. AS MEASURED AT THE SEATING PLANE.
- 4. INCH DIMENSIONS DERIVED FROM MILLIMETERS.



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ABSOLUTE MAXIMUM RATINGS (TA = 25°C Unite	ss Otherwise Specified)
Storage Temperature	
Soldering: Lead Temperature (Iron) Lead Temperature (Flow)	
Continuous Forward Current	

ELECTRICAL CHARACTERISTICS (T _A = 25°C Unless Otherwise Specified) (All measurements made under pulse conditions.)									
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS			
Forward Voltage	V _F	_		1.7	V	$I_F = 20 \text{ mA}$			
Reverse Breakdown Voltage	V _R	6.0			V	$I_R = 10 \mu A$			
Reverse Leakage Current	I _R	_		10	μΑ	V _R = 5 V			
Peak Emission Wavelength	λ,		880		nm	I _F = 100 mA			
Emission Angle at ½ Power	θ		±35		Degrees				
Radiant Intensity	le	0.6		_	mW/sr	I _F = 20 mA ⁽⁶⁾			

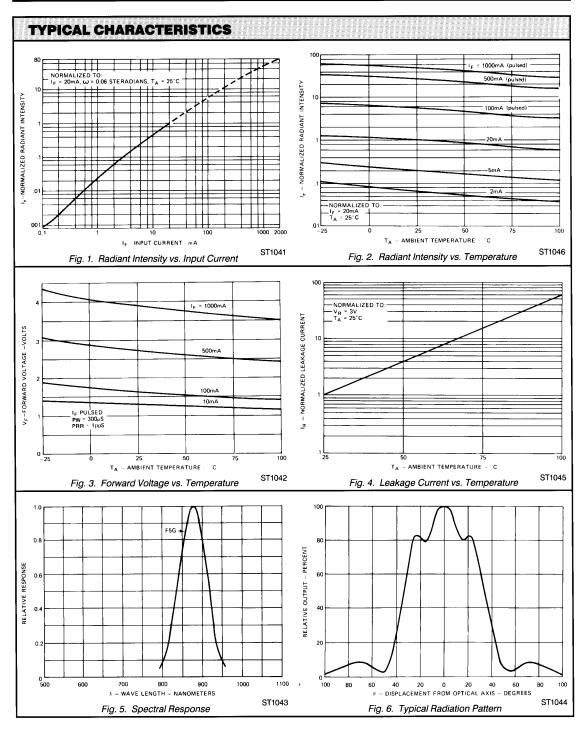
NOTES

- Derate power dissipation linearly 1.33 mW/°C above 25°C ambient.
 RMA flux is recommended.

- HMA flux is recommended.
 Methanol or Isopranol alcohols are recommended as cleaning agents.
 Soldering iron tip ¼s" (1.6 mm) minimum from housing.
 As long as leads are not under any stress or spring tension.
 Ie measured with a 0.45 cm aperture placed 1.6 cm from the tip of the lens on the lens centerline perpendicular to the plane of the leads.



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