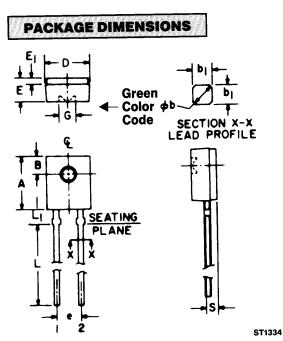


F5G1



DESCRIPTION

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



- 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

SYMBOL	MILLIMETERS		INCHES		NOTES
	MIN.	MAX.	MIN.	MAX.	110120
A	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	
E1	.58	.69	.023	.027	
e	2.41	2.67	.095	.105	3
G	1.98	NOM.	.078	NOM.	
L	12.7	_	.500	-	
L,	1.40	1.65	.055	.065	
S	.83	.94	.033	.037	3





NOTES:

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

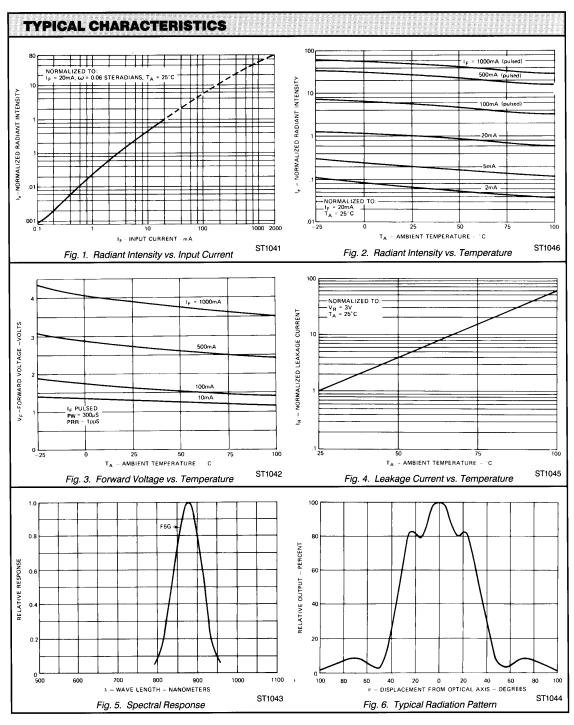


ABSOLUTE MAXIMUM RATINGS (T ₄ = 25°C Unless Otherwise Specified)	
Storage Temperature	
Soldering: Lead Temperature (Iron) Lead Temperature (Flow)	
$\label{eq:continuous} \begin{tabular}{lllllllllllllllllllllllllllllllllll$	2 A 6 Volts

ELECTRICAL CHARACTERISTICS (T ₄ = 25°C Unless Otherwise Specified) (All measurements made under pulse conditions.)									
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS			
Forward Voltage	VF	_		1.7	V	$I_F = 20 \text{ mA}$			
Reverse Breakdown Voltage	V _R	6.0			V	I _B = 10 μA			
Reverse Leakage Current	l _R	_		10	μΑ	$V_{B} = 5 V$			
Peak Emission Wavelength	λ,,		880		nm	$I_F = 100 \text{ mA}$			
Emission Angle at 1/2 Power	θ		±35		Degrees				
Radiant Intensity	le	0.6			mW/sr	$I_{\rm F} = 20 {\rm mA}^{(6)}$			

Derate power dissipation linearly 1.33 mW/°C above 25°C ambient.
RMA flux is recommended.
Methanol or Isopranol alcohols are recommended as cleaning agents.
Soldering iron tip ¼e" (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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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.