

W53SF4C

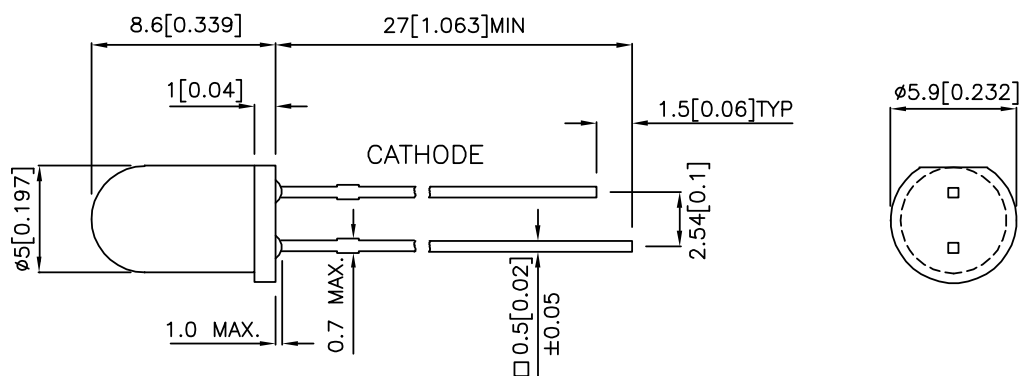
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE W53P3C PHOTOTRANSISTOR.
- WATER CLEAR LENS .
- RoHS COMPLIANT.

Description

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 (0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge from the package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @ 20 mA*50mA		Viewing Angle
			Min.	Typ.	2θ1/2
W53SF4C	GaAlAs	WATER CLEAR	7	20	20°
			*10	*50	

Notes:

- 1.θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- 2.*Luminous intensity with asterisk is measured at 50mA.

Electrical / Optical Characteristics at TA=25°C

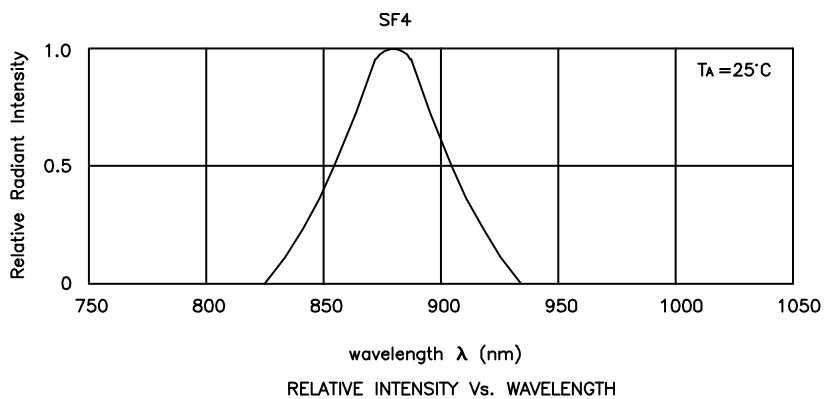
Parameter	P/N	Symbol	Typ.	Max.	Units	Test Conditions
Forward Voltage	SF4	V _F	1.3	1.6	V	I _F =20mA
Reverse Current	SF4	I _R	-	10	uA	V _R =5V
Capacitance	SF4	C	90	-	pF	V _F =0V;f=1MHz
Peak Spectral Wavelength	SF4	λ _P	880	-	nm	I _F =20mA
Spectral Bandwidth	SF4	Δλ1/2	50	-	nm	I _F =20mA

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	SF4	Units
Power Dissipation	P _T	100	mW
DC Forward Current	I _F	50	mA
Peak Forward Current[1]	i _{FS}	1.2	A
Reverse Voltage	V _R	5	V
Operating Temperature	T _A	-40 To +85	°C
Storage Temperature	T _{STG}	-40 To +85	°C
Lead Solder Temperature [2]		260°C For 3 Seconds	
Lead Solder Temperature [3]		260°C For 5 Seconds	

Notes:

1. 1/100 Duty Cycle, 10us Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



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