

W53F3BT

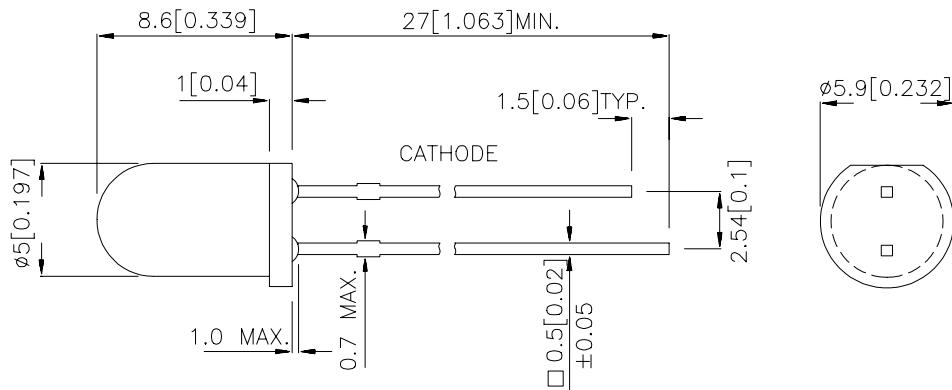
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE W51P3C PHOTOTRANSISTOR.
- BLUE TRANSPARENT LENS AVAILABLE HIGH POWER OUTPUT.

Description

F3 Made with Gallium 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 package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @ 20 mA *50 mA		Viewing Angle
			Min.	Typ.	
W53F3BT	GaAs	BLUE TRANSPARENT	4	20	20°
			*7	*30	

Note:

1. $\theta_{1/2}$ 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 $T_A=25^\circ C$

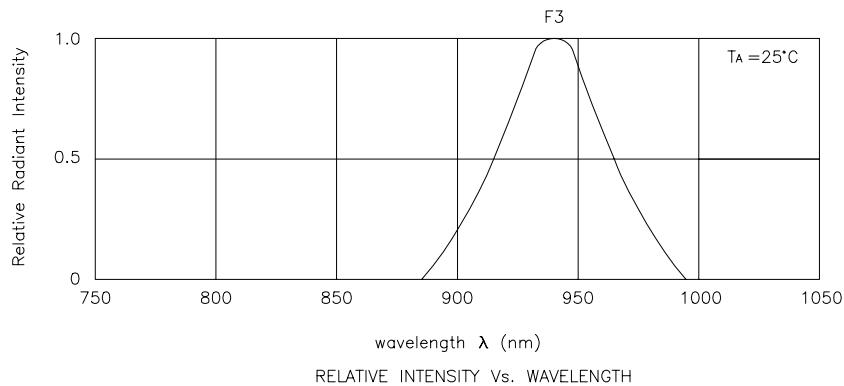
Parameter	P/N	Symbol	Typ.	Max.	Unit	Condition
Forward Voltage	F3	V_F	1.2	1.6	V	$I_F=20mA$
Reverse Current	F3	I_R	-	10	uA	$V_R=5V$
Capacitance	F3	C	90	-	pF	$V_F=0V; f=1MHz$
Peak Spectral Wavelength	F3	λ_P	940	-	nm	$I_F=20mA$
Spectral Bandwidth	F3	$\Delta\lambda_{1/2}$	50	-	nm	$I_F=20mA$

Absolute Maximum Ratings at $T_A=25^\circ C$

Parameter	Symbol	F3	Units
Power Dissipation	P_T	100	mW
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~+85	°C
Storage Temperature	T_{STG}	-40~+85	°C
Lead Solder Temperature[2]		260°C For 5 Seconds	

Notes:

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



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