Kingbright

T-1 3/4 (5mm) INFRA-RED EMITTING DIODE

L-7113F3BT

Description **Features** F3 Made with Gallium Arsenide Infrared Emitting • MECHANICALLY AND SPECTRALLY MATCHED diodes. TO THE PHOTOTRANSISTOR. • BLUE TRANSPARENT LENS AVAILABLE HIGH POWER OUTPUT. • RoHS COMPLIANT. **Package Dimensions** 8.6[0.339] 27[1.063]MIN 1[0.04] ø5.9[0.232] 1.5[0.06]TYP CATHODE .54[0.1] 5[0.197 £ MAX. 0.5[0.02] ±0.05 0.7 1.0 MAX Notes: 1. All dimensions are in millimeters (inches). 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted. 3. Lead spacing is measured where the leads emerge from the package. 4. Specifications are subject to change without notice.

SPEC NO: DSAE2820 APPROVED: J. Lu REV NO: V.6 CHECKED: Allen Liu DATE: NOV/04/2005 DRAWN: W.J.ZHU

Kingbright

Selection Guide							
Part No.	Dice	Lens Type	Po (mW/sr) @ 20mA*50mA		Viewing Angle		
			Min.	Тур.	201/2		
L-7113F3BT GaA	GaAs	BLUE TRANSPARENT	4	20	20°		
			*7	*30			

Notes:

1.01/2 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

Item	P/N	Symbol	Тур.	Max.	Units	Test Conditions
Forward Voltage	F3	Vf	1.2	1.6	V	I⊧=20mA
Reverse Current	F3	lr	-	10	uA	Vr=5V
Capacitance	F3	С	90	-	pF	VF=0V;f=1MHz
Peak Spectral Wavelength	F3	λΡ	940	-	nm	IF=20mA
Spectral Bandwidth	F3	Δλ1/2	50	-	nm	IF=20mA

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	F3	Units		
Power Dissipation	Рт	100	mW		
DC Forward Current	lF	50	mA		
Peak Forward Current[1]	ifs	1.2	A		
Reverse Voltage	Vr	5	V		
Operating Temperature	Та	-40 To +85	°C		
Storage Temperature	Тѕтс	-40 To +85	°C		
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

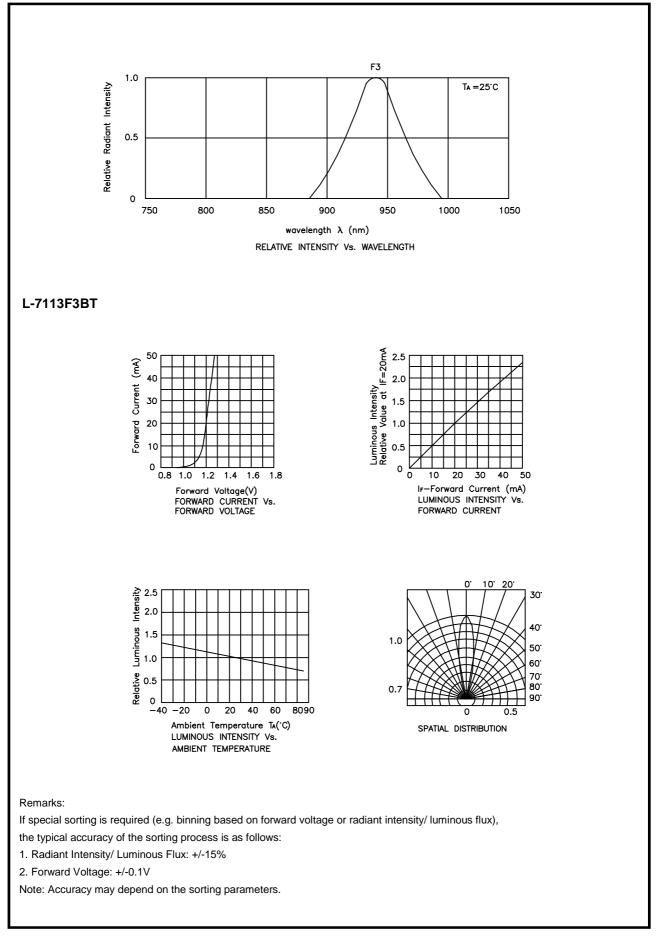
Notes:

1. 1/100 Duty Cycle, 10us Pulse Width.

2. 2mm below package base.

3. 5mm below package base.

Kingbright



REV NO: V.6 CHECKED: Allen Liu DATE: NOV/04/2005 DRAWN: W.J.ZHU