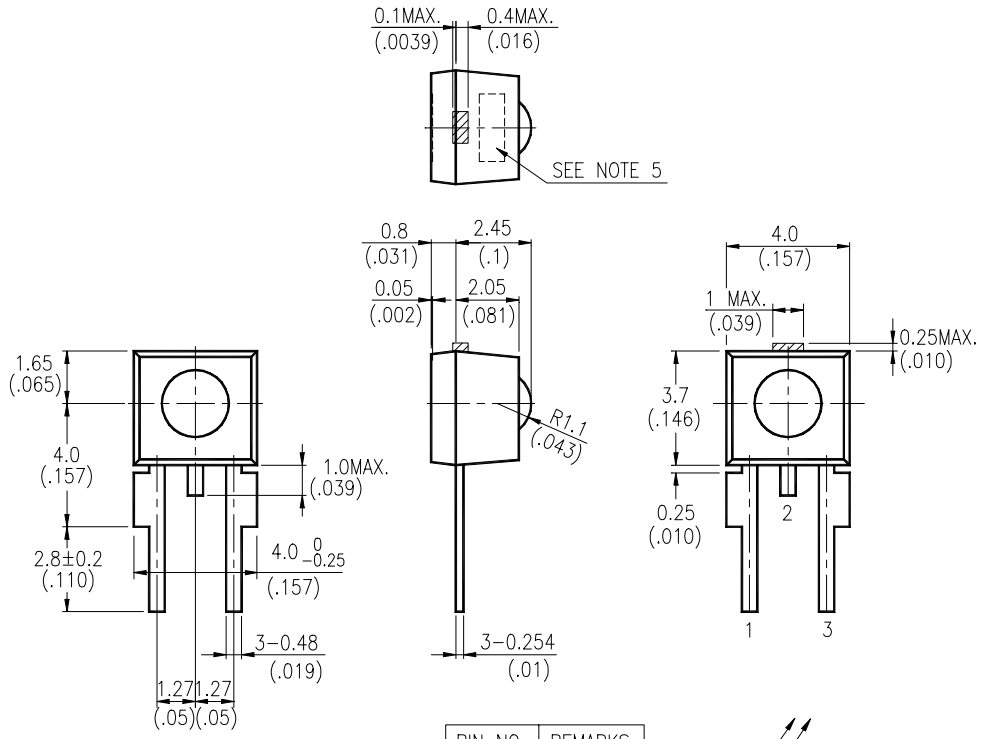
FEATURES

* GaAlAs TECHNOLOGY
* MINIATURE PLASTIC SIDE LOOKING PACKAGE
* MECHANICALLY AND SPECTRALLY MATCHED TO THE LTR-303 SERIES OF PHOTOTRANSISTOR AND LTR-304 SERIES OF PHOTO IC

PACKAGE DIMENSIONS



PIN NO.	REMARKS
1	CATHODE
2	OPEN
3	ANODE

NOTES:
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25mm(.010") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice for performance improvement.
5. L_N : Taiwan Factory (N-mold number).
   Blank: Tianjin Factory.

ABSOLUTE MAXIMUM RATINGS AT TA=25℃

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation	100	mW
Peak Forward Current (300pps, 10 μ s pulse)	1	A
Continuous Forward Current	50	mA
Reverse Voltage	5	V
Operating Temperature Range	-25℃ to + 85℃	
Storage Temperature Range	-40℃ to + 85℃	
Lead Soldering Temperature [1.6mm(.063") From Body]	260℃ for 10 Seconds	

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25℃

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Output Current	Io	0.88			mA	*NOTE 1
Peak Emission Wavelength	λ_{Peak}		940		nm	I_F = 20mA
Spectral Line Half-Width	$\Delta\lambda$		50		nm	I_F = 20mA
Forward Voltage	V_F		1.25	1.5	V	I_F = 30mA
Reverse Current	I_R			10	μ A	V_R = 4V
Viewing Angle (See FIG.6)	$2\theta_{1/2}$		30		deg.	

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*NOTE 1:

1-1. TEST METHOD

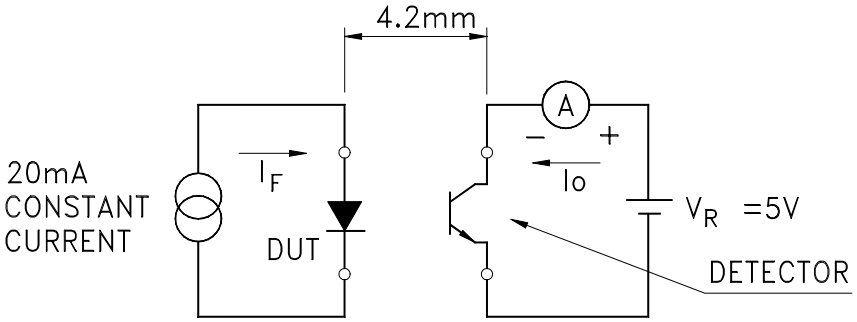
MEASURING METHOD AND CONDITIONS AS SHOW IN FIGURE.

--- SET THE DUT (DEVICE UNDER TEST) AND A REFERENCE DETECTOR FACING EACH OTHER AT A DISTANCE OF 4.2mm.

--- LTR-303P1-L AS REFERENCE DETECTOR.

--- POSITION THE AXIS OF THE DUT IN ALIGNMENT WITH THE AXIS OF REFERENCE DETECTOR.

---MEASURE CURRENT Io.



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*NOTE 1:

1-2. RANKING

ALL DEVICES SHOULD BE RANKED PER TABLE AS BELLOW. THEY SHOULE BE PACKAGED AND LABELLED ACCORDINGLY.

RANK	Io	Io± 10%(mA)
1	0.88~1.05	0.79 ~ 1.16
2	1.05~1.25	0.95 ~ 1.38
3	1.25~1.50	1.13 ~ 1.65
4	1.50~1.75	1.35 ~ 1.93
5	1.75~2.00	1.58 ~ 2.20
6	2.00~2.25	1.80 ~ 2.48
7	2.25~2.50	2.03 ~ 2.75
8	2.50~3.00	2.25 ~ 3.30

TABLE OF RANKING SPECIFICATION

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25℃ Ambient Temperature Unless Otherwise Noted)

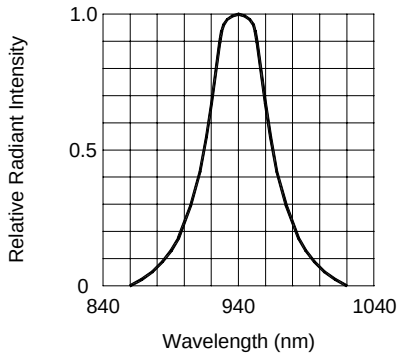

FIG.1 SPECTRAL DISTRIBUTION

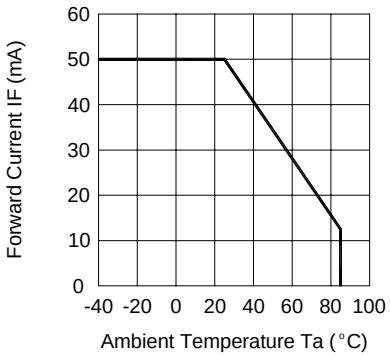

FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

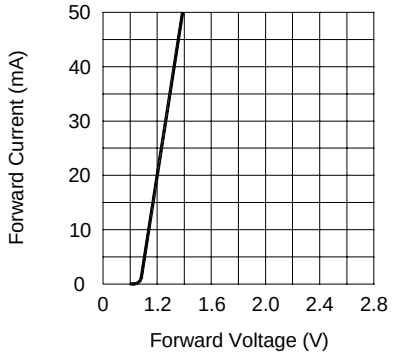

FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

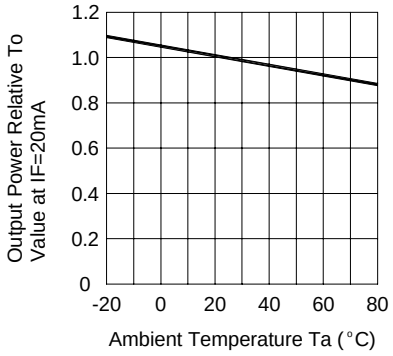

FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

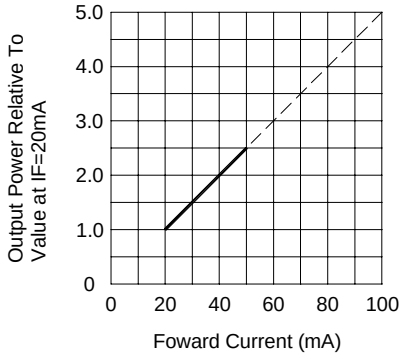

FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

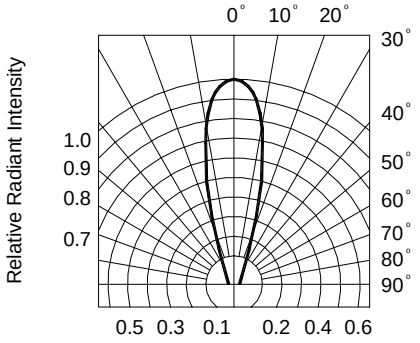

FIG.6 RADIATION DIAGRAM