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REVISIONS			DOC. NO.	SPC-F004	* Effect	lve: 12/21/	98 * DC	P No. 680
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
266	Α	RELEASED	HYO	8/22/00	JC	2/19/01	DIC	2/19/01

## **FEATURES:**

- 1. With built-in blinking IC.
- 2. Operation Voltage from 3.5V ~ 13V.
- 3. Blinking Frequency from 2.5Hz ~ 1.5Hz.

## **DESCRIPTION:**

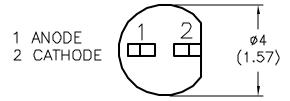
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

# 0.5(0.02) SQUARE 1.5(0.06) 1.0 (0.118) 5(0.197) 27(1.063) MIN 1.5(0.06)

**PACKAGE DIMENSIONS** 

# Note:

Lead spacing is measured where the lead emerge package.



DIAE	LENG TYPE	lv (mcd) @ V	Viewing Angle	
DICE	LENS TYPE	MIN	MAX	2 <b>θ</b> 1/2
High Efficiency Red (GaAsP/GaP)	Red Diffused	12.5	32	60°

#### NOTE

 $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. SPC-FOO4.DWG

DISCLADIER?  ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION MO/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND DUR CONTROL, THE LISER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE NIENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSCEVER IN CONNECTION THEREWITH.					n	nulti	con	np		
	DRAWN BY:	DATE:		ING TITLE:						
Tolerance Unless	HISHAM ODISH	8/22/00	T-1	(3mm)	BLINK	ING LED	LAMP,	HIGH	EFFICIENCY	RED
Otherwise Specified	CHECKED BY:	DATE:	SIZE	DWG. NO.				ELEC	TRONIC FILE	REV
.XX ± 0.25 (0.01")	JOHN COLE	2/19/01	Α		MCL-	-36BID		92	N5378.DWG	A
, ,	APPROVED BY:	DATE:								
	DANIEL CAREY	2/19/01	SCALE	E: NTS		D.O.M.: MM	[INCHES]		SHEET: 1 C	F 3

# Electrical / Optical Characteristics at $T_A=25$ °C

SYMBOL	PARAMETER	Min.	TYP.	Max.	UNITS	TEST CONDITIONS
$\lambda$ peak	Peak Wavelength		625		nm	IF = 20mA
$\Delta\lambda_1/2$	Spectral Line Halfwidth		45		nm	IF = 20mA
V <sub>F</sub>	Forward Voltage	3.5	9–12	13.0	V	Min, IF=6mA Typ. IF=38-56mA Max. IF=70mA
Ison	Supply Current		6-70		mA	
f	Blink Frequency		2.5-1.5		Hz	

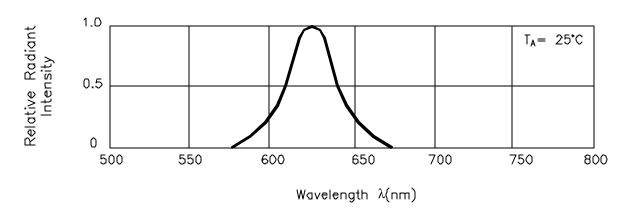
# Absolute Maximum Ratings at TA=25°C

Power	DC Forward	Reverse	Operating/Storage	Storage	Lead Soldering
dissipation	Current	Voltage	Temperature	Temperature	Temperature [1]
(mW)	(mA)	(V)	(°C)	(°C)	(°C)
200	38-56	0.5	-40°C ∼ +70°C	-40°C ∼ +100°C	

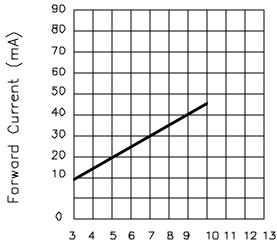
### Note:

4mm below package base.

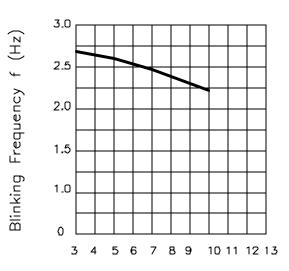
# **RELATIVE INTENSITY Vs. WAVELENGTH**



SIZE	DWG. NO.		ELEC	TRONIC FIL	E	REV
Α	MCL-	-36BID	92	2N5378.	DWG	Α
SCALI	E: NTS	D.O.M.: MM [INCHES]		SHEET:	2 (1	- 3

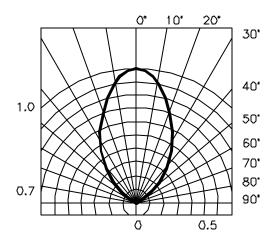






Applied Voltage VDD (VOLT)

Applied Voltage VDD (VOLT)



**SPATAL DISTRIBUTION** 

SIZE	DWG. NO.		ELEC	TRONIC FIL	E	REV
Α	MCL-36BID			2N5378.	DWG	Α
SCALE: NTS U.O.M.: MM [INCHES]				SHEET:	3 QF	- 3