multicomp

SPC-F005.DWG

REVISIONS

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1908	A	RELEASED	EO	6/7/06	YA	6/19/06	HO	6/19/06

RoHS Compliant

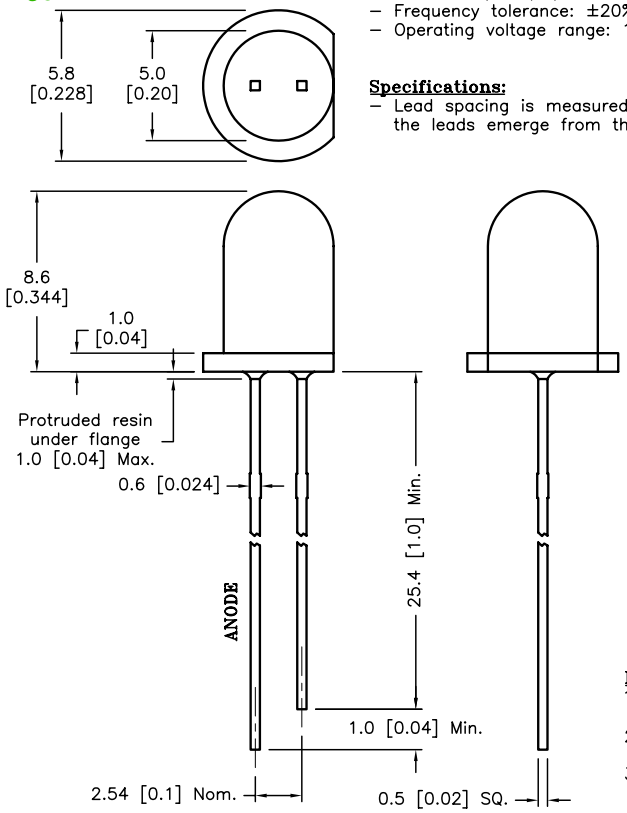
Features:
- ¼ duty cycle
- Standard (T1 3/4) diameter package
- Frequency tolerance: ±20%
- Operating voltage range: 1.35V~5.00VDC

Specifications:
- Lead spacing is measured where the leads emerge from the package

Source Color	Chip Material	Lens Color
Red	AlGaAs	Red Diffused

Blinking Frequency VS. External Part Value

Product Type	Frequency	Output Type	Duty Cycle
N/A	1.5Hz	Sink	1/4



Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	−25°C to +80°C	
Storage Temperature Range	−40°C to +100°C	
Lead Soldering Temperature [4mm (0.157) From Body]	260°C for 5 seconds	

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max	Unit	Test Condition
Peak Emission Wavelength	λp		660		nm	I_f=20mA
Dominant Wavelength	λd		643		nm	I_f=20mA (Note 3)
Spectral Line Half-Width	Δλ		20		nm	I_f=20mA
Viewing Angle	$2\theta_{1/2}$	---	60	---	Deg	VDD=3V
Operating Voltage	V_{dd}	1.3		5	V	I_f=20mA
Reverse Current	I_R	---	---	100	μA	V_R=5V

Notes:
1- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2- $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3- The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, ±0.25 [±0.010]

DRAWN BY:	DATE:
EKLAS ODISH	6/7/06
CHECKED BY:	DATE:
YILMAZ AKYONDEM	6/19/06
APPROVED BY:	DATE:
HISHAM ODISH	6/19/06

DRAWING TITLE: **Blinking LED, Round Lens, 5mm (T1 3/4), Red Colour Emitting Color**

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC20431	87K7065.DWG	A

SCALE: NTS | U.O.M.: mm [INCHES] | SHEET: 1 OF 1