

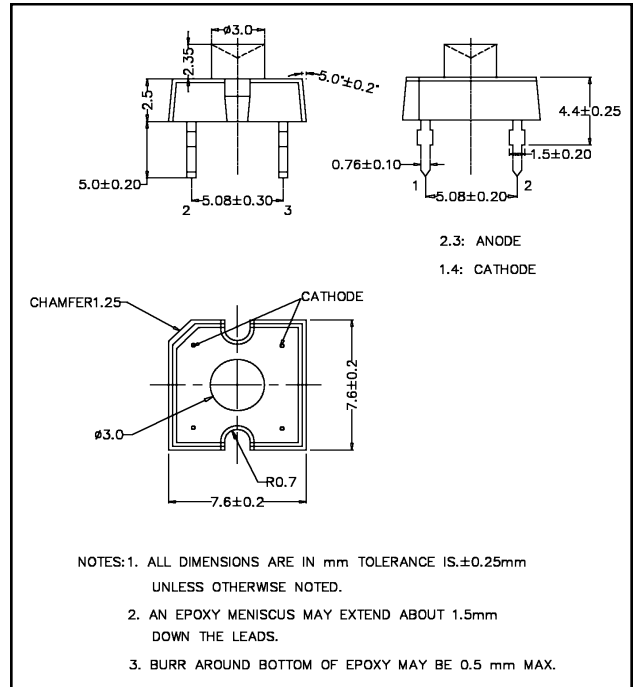
LP378PWN1-C0G

Features

4 Pin Plastic Package
 Low Profile
 Concave Lens
 Very Wide Viewing Angle (120°)

Applications

Backlighting
 General Purpose Lighting



Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I _F	30	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	132.00	mW
Operating Temperature	T _{opr}	-40 ~ +95	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature	T _{sol}	260	°C
Soldering Time	-	for 3 sec. max	-

Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =30mA	-	3.60	4.40	V
Reverse Current	I _R	V _R =5V	-	-	100	μA
Luminous Flux	Φ	I _F =30mA	200.00	350.00	-	mlm
Viewing Angle	2θ ^{1/2}	-	-	130°	-	deg.
Peak Wavelength	λ _p	I _F =30mA	-	465	-	nm
Dominant Wavelength	λ _d	I _F =30mA	-	X=.30, Y=.31	-	nm

LP378PWN1-C0G Graphs

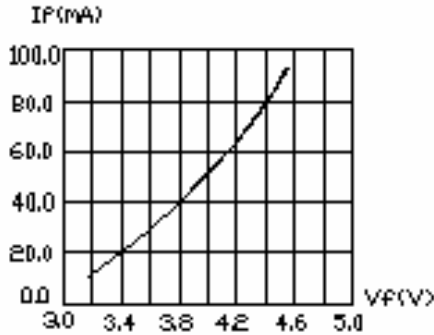


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE

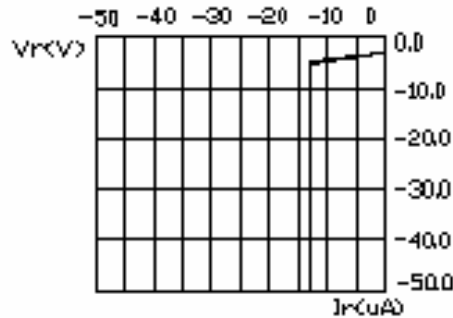


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE

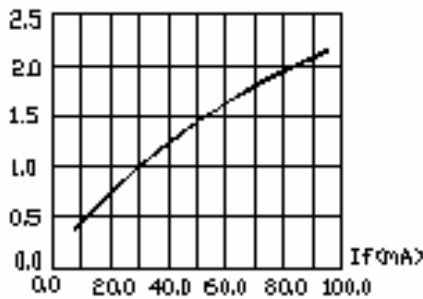


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

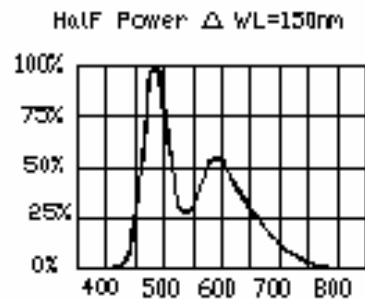


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

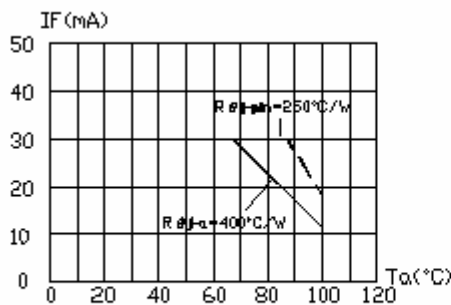


FIG.5 MAXIMUM FORWARD CURRENT VS. AMBIENT TEMPERATURE (Tjmax=120°C)

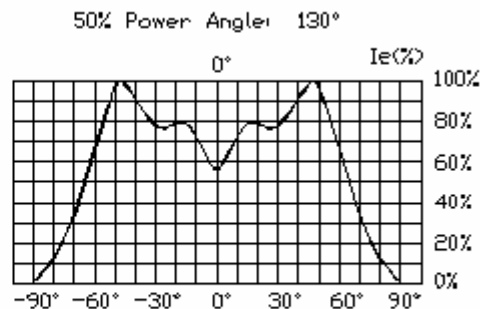


FIG.6 FAR FIELD PATTERN

1. Cathode PAD Area (0.18 X 0.18 X 2inch²)
2. Height above nominal seating plane in inches(0.3inch)