14.2mm (0.56INCH) SINGLE DIGIT NUMERIC DISPLAY

Part Number: SC56-11EWA HIGH EFFICIENCY RED

Features

- 0.56 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD: GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.

Description

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

Package Dimensions & Internal Circuit Diagram

Notes:
1. All dimensions are in millimeters (inches). Tolerance is ±0.25(0.01") unless otherwise noted.
2. Specifications are subject to change without notice.
## Selection Guide

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Dice</th>
<th>Lens Type</th>
<th>$I_v$ (ucd) $[1]$ @ 10mA</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC56-11EWA</td>
<td>HIGH EFFICIENCY RED(GaAsP/GaP)</td>
<td>WHITE DIFFUSED</td>
<td>1200</td>
<td>6400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Common Cathode, Rt. Hand Decimal.</td>
</tr>
</tbody>
</table>

**Note:**
1. Luminous intensity / luminous flux: +/-15%.

### Electrical / Optical Characteristics at $T_a=25^\circ C$

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Parameter</th>
<th>Device</th>
<th>Typ.</th>
<th>Max.</th>
<th>Units</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\lambda_{peak}$</td>
<td>Peak Wavelength</td>
<td>High Efficiency Red</td>
<td>627</td>
<td>nm</td>
<td></td>
<td>$I_f=20mA$</td>
</tr>
<tr>
<td>$\lambda_D$ $[1]$</td>
<td>Dominant Wavelength</td>
<td>High Efficiency Red</td>
<td>625</td>
<td>nm</td>
<td></td>
<td>$I_f=20mA$</td>
</tr>
<tr>
<td>$\Delta\lambda_{1/2}$</td>
<td>Spectral Line Half-width</td>
<td>High Efficiency Red</td>
<td>45</td>
<td>nm</td>
<td></td>
<td>$I_f=20mA$</td>
</tr>
<tr>
<td>C</td>
<td>Capacitance</td>
<td>High Efficiency Red</td>
<td>15</td>
<td>pF</td>
<td></td>
<td>$V_f=0V;f=1MHz$</td>
</tr>
<tr>
<td>$V_f$ $[2]$</td>
<td>Forward Voltage</td>
<td>High Efficiency Red</td>
<td>2.0</td>
<td>2.5</td>
<td>V</td>
<td>$I_f=20mA$</td>
</tr>
<tr>
<td>$I_v$</td>
<td>Reverse Current</td>
<td>High Efficiency Red</td>
<td>10</td>
<td>uA</td>
<td></td>
<td>$V_R = 5V$</td>
</tr>
</tbody>
</table>

**Notes:**
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

### Absolute Maximum Ratings at $T_a=25^\circ C$

<table>
<thead>
<tr>
<th>Parameter</th>
<th>High Efficiency Red</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power dissipation</td>
<td>105</td>
<td>mW</td>
</tr>
<tr>
<td>DC Forward Current</td>
<td>30</td>
<td>mA</td>
</tr>
<tr>
<td>Peak Forward Current $[1]$</td>
<td>160</td>
<td>mA</td>
</tr>
<tr>
<td>Reverse Voltage</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>Operating/Storage Temperature</td>
<td>-40°C to +85°C</td>
<td></td>
</tr>
<tr>
<td>Lead Solder Temperature $[2]$</td>
<td>260°C for 3 Seconds</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
High Efficiency Red

SC56-11EWA
PACKING & LABEL SPECIFICATIONS

SC56-11EWA

3600PCS/BOX

OUTSIDE LABEL

40 PCS/TUBE

LABEL

90 TUBE/10 # BOX

Inside LABEL Paste On The IC-tube

Kingbright

Type: SX56–11XXX

Date: xx

Bin Code

RoHS Compliant

Outside LABEL Paste On The Box

SX56–11XXX 3600 PCS

QAxx

Date

PASSED

Number OF QA

Number OF FQC