

APSC56-21EWW HIGH EFFICIENCY RED

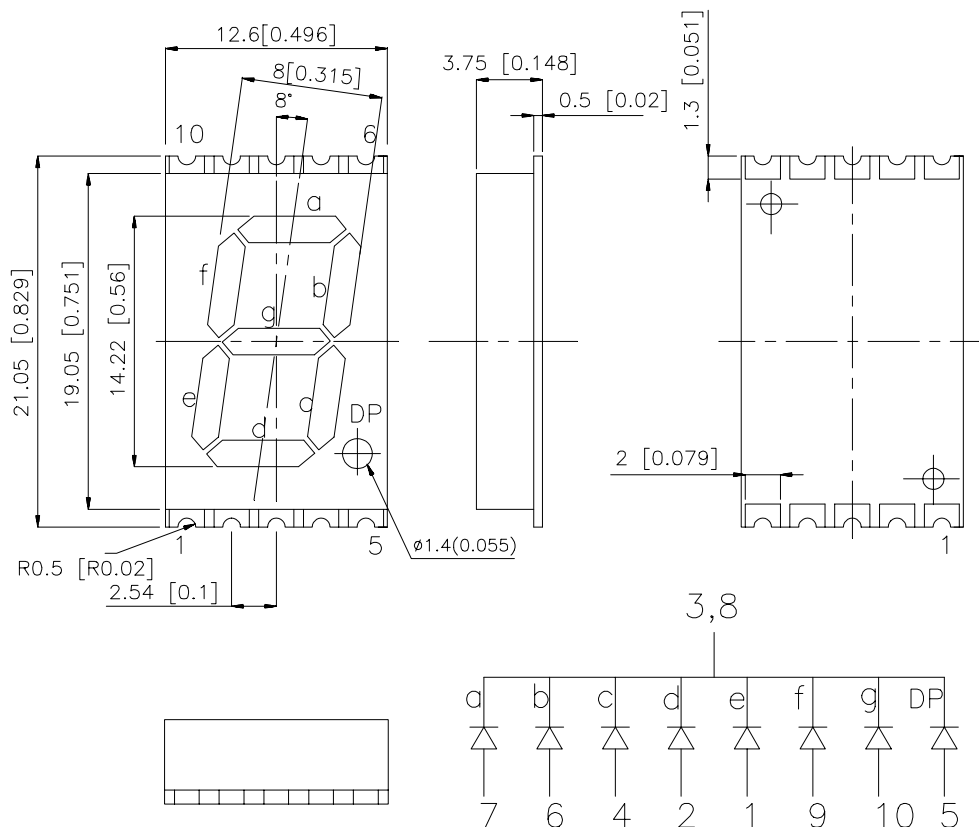
Features

- 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: WHITE FACE,WHITE SEGMENT.
- PACKAGE: 500PCS/REEL.

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).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 10 mA | | Description |
|--------------|--------------------------------|----------------|---------------------|------|------------------------------------|
| | | | Min. | Typ. | |
| APSC56-21EWW | HIGH EFFICIENCY RED(GaAsP/GaP) | WHITE DIFFUSED | 4.7 | 8.1 | Common Cathode. Rt.Hand Decimal |

Electrical / Optical Characteristics at T_A=25°C

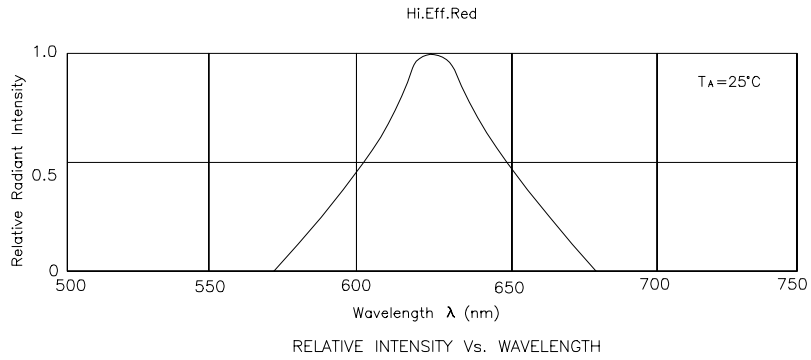
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|-------------------------|---------------------|------|------|-------|-----------------|
| λ_{peak} | Peak Wavelength | High Efficiency Red | 627 | | nm | IF=20mA |
| λ_D | Dominate Wavelength | High Efficiency Red | 625 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Halfwidth | High Efficiency Red | 45 | | nm | IF=20mA |
| C | Capacitance | High Efficiency Red | 15 | | pF | VF=0V;f=1MHz |
| V _F | Forward Voltage | High Efficiency Red | 2.0 | 2.5 | V | IF=20mA |
| I _R | Reverse Current | High Efficiency Red | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at T_A=25°C

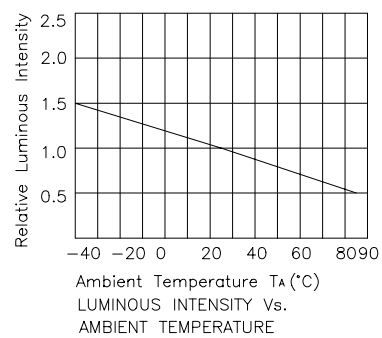
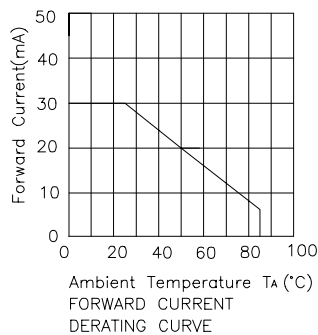
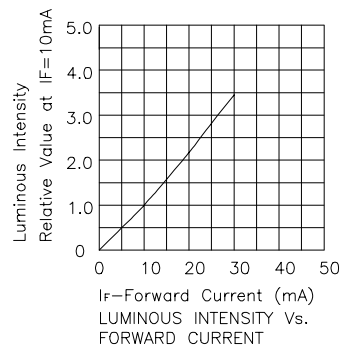
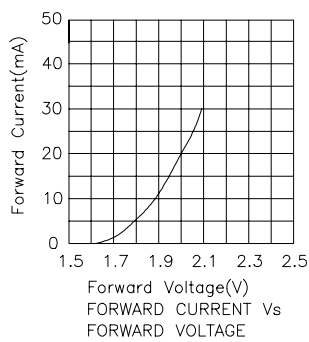
| Parameter | High Efficiency Red | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 105 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 160 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

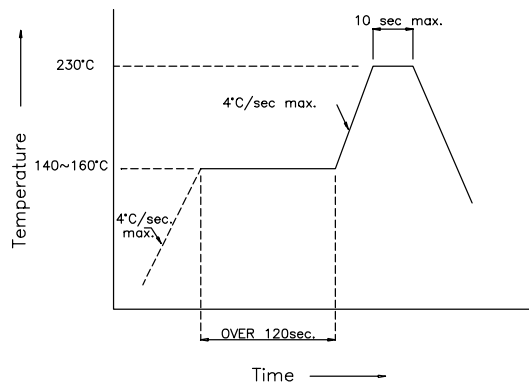


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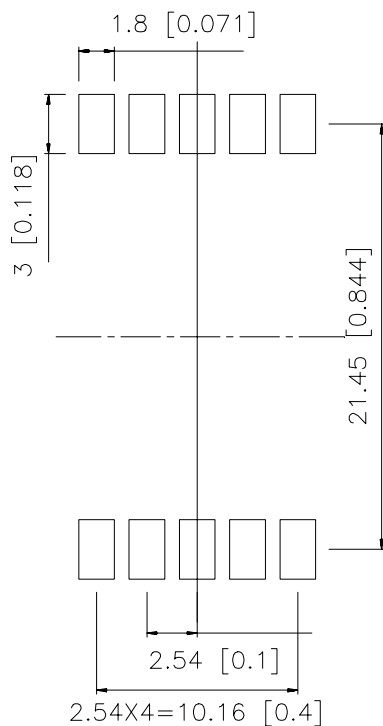


APSC56-21EWW SMT Reflow Soldering Instruction

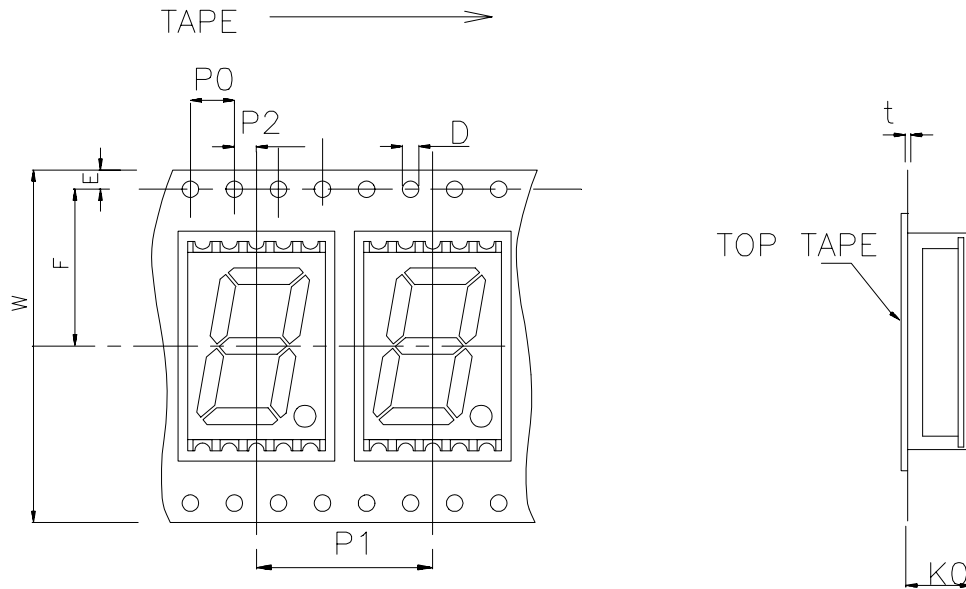
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units : mm)



Tape Specification
(Units : mm)



| DIMENSIONS PER MILLIMETRES(INCHES) | |
|------------------------------------|--------------------|
| D | 1.55[0.06]±0.05 |
| E | 1.75±0.1(.069) |
| F | 14.2[0.559]±0.1 |
| P | 16[0.63]TYP. |
| P0 | 4.0(.157)TYP. |
| P2 | 2.0(.079±0.02)TYP. |
| t | 0.3[0.012]TYP. |
| K0 | 4(0.157)±0.1 |
| W | 32[1.26]±0.3 |