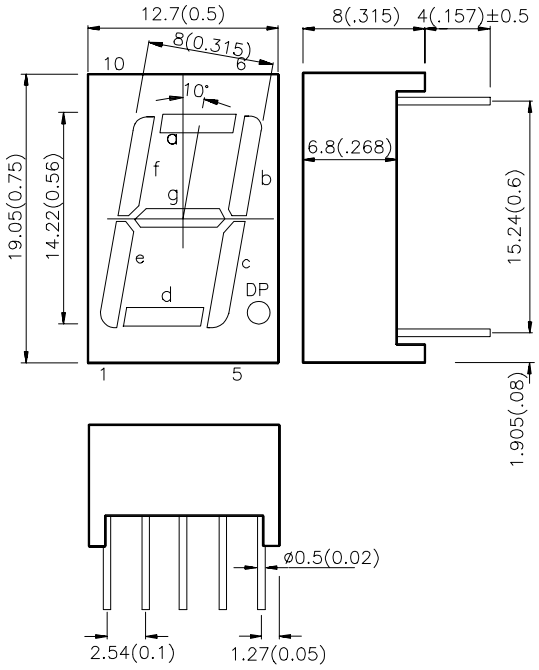
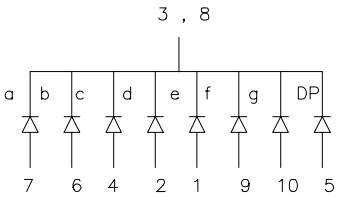
Package Dimensions & Internal Circuit Diagram

14.2mm (0.56INCH) SINGLE DIGIT NUMERIC DISPLAY

ESC56-11EWA HIGH EFFICIENCY RED





Features

1.0.56 INCH DIGIT HEIGHT.

2.LOW CURRENT OPERATION.

3.EXCELLENT CHARACTER APPEARANCE.

4.UNIVERSAL ±1.OVERFLOW AVAILABLE.

5.EASY MOUNTING ON P.C. BOARDS OR SOCKETS.

6.I.C. COMPATIBLE.

7.CATEGORIZED FOR LUMINOUS INTENSITY, YELLOW AND GREEN CATEGORIZED FOR COLOR.

8.MECHANICALLY RUGGED.

9.STANDARD : GRAY FACE, WHITE SEGMENT.

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

Description

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

Selection Guide

Part No.	Emitting Color +Material	λD(nm)	Lens Type	Iv (ucd) @ 10 mA		Description
				Min.	Typ.	
ESC56-11EWA	GaAsP/GaP	625	WHITE DIFFUSED	1900	6400	Common Cathode, Rt. Hand Decimal

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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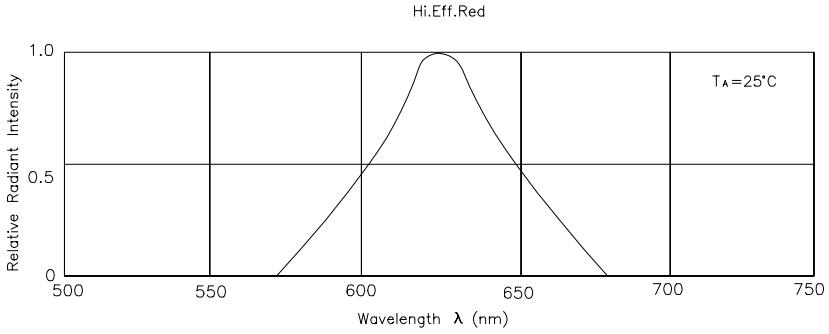
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	I_F=20mA
λD	Dominate Wavelength	High Efficiency Red	625		nm	I_F=20mA
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red	45		nm	I_F=20mA
C	Capacitance	High Efficiency Red	15		pF	V_F=0V;f=1MHz
V_F	Forward Voltage	High Efficiency Red	2.0	2.5	V	I_F=20mA
I_R	Reverse Current	High Efficiency Red			uA	V_R = 5V

Absolute Maximum Ratings at T_A=25°C

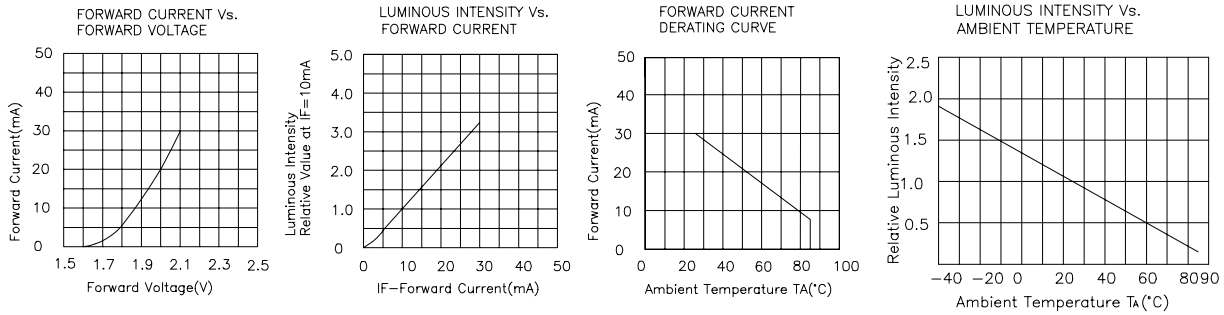
Parameter	High Efficiency Red	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Note:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



RELATIVE INTENSITY Vs. WAVELENGTH

Highe Efficiency Red ESC56-11EWA



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