

20mm (0.8 INCH) 16 SEGMENT SINGLE DIGIT ALPHANUMERIC DISPLAYS

PSA08-11 PSC08-11 PSC08-12 PSC08-12

Features

- •0.8 INCH CHARACTER HEIGHT.
- •LOW CURRENT OPERATION.
- •HIGH CONTRAST AND LIGHT OUTPUT.
- COMMON CATHODE AND COMMON ANODE AVAILABLE.
- •EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •CATEGORIZED FOR LUMINOUS INTENSITY,

YELLOW AND GREEN CATEGORIZED FOR COLOR.

- •MECHANICALLY RUGGED.
- •STANDARD: GRAY FACE, WHITE SEGMENT.

Description

The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

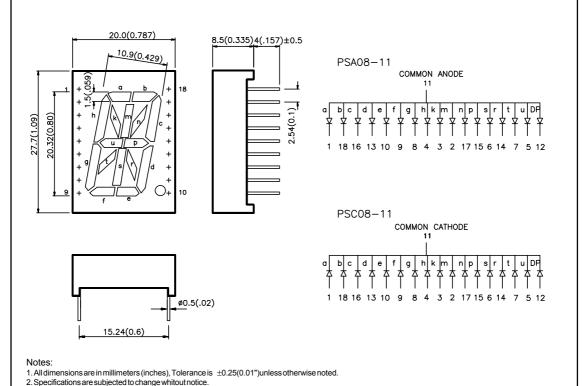
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

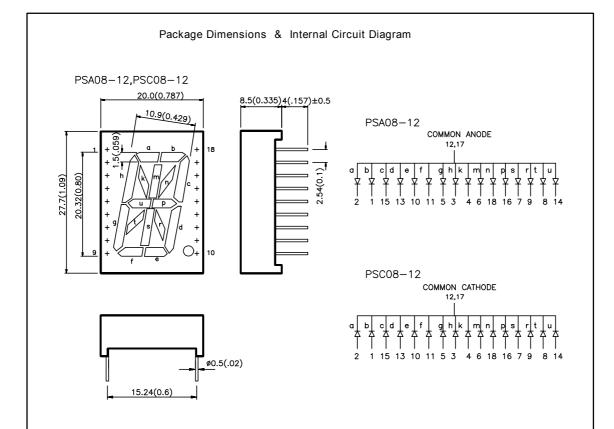
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions & Internal Circuit Diagram





Selection Guide

Part No.	Dice	lv (ucd) @ 10 mA		5	
		Min.	Max.	Description	
PSA08-11HWA PSA08-12HWA	PRICHT PED (Cap)	560	1400	Common Anode, Rt. Hand Decimal	
PSC08-11HWA PSC08-12HWA	BRIGHT RED (GaP)			Common Cathode, Rt Hand Decimal	
PSA08-11EWA PSA08-12EWA	LUCULEFFICIENCY DED (CoAsD(CoD)	2200	9000	Common Anode, Rt. Hand Decimal	
PSC08-11EWA PSC08-12EWA	HIGH EFFICIENCY RED (GaAsP/GaP)			Common Cathode, Rt Hand Decimal	
PSA08-11GWA PSA08-12GWA	CDEEN (Cap)	1400	3600	Common Anode, Rt. Hand Decimal	
PSC08-11GWA PSC08-12GWA	GREEN (GaP)			Common Cathode, Rt Hand Decimal	
PSA08-11YWA PSA08-12YWA	VELLOW (Co A o D/C o D)	1400	3600	Common Anode, Rt. Hand Decimal	
PSC08-11YWA PSC08-12YWA	YELLOW (GaAsP/GaP)			Common Cathode, Rt Hand Decimal	
PSA08-11SRWA PSA08-12SRWA	CUDED DDICUT DED (CoAIAs)	9000	0 21000	Common Anode, Rt. Hand Decimal	
PSC08-11SRWA PSC08-12SRWA	SUPER BRIGHT RED (GaAlAs)			Common Cathode, Rt Hand Decimal	

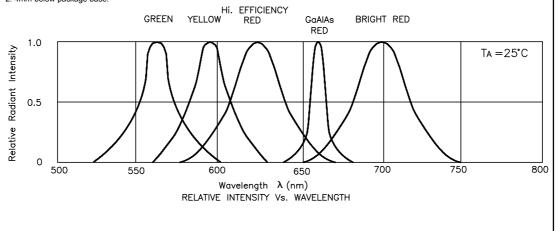
Electrical / Optical Characteristics at T_A =25° C

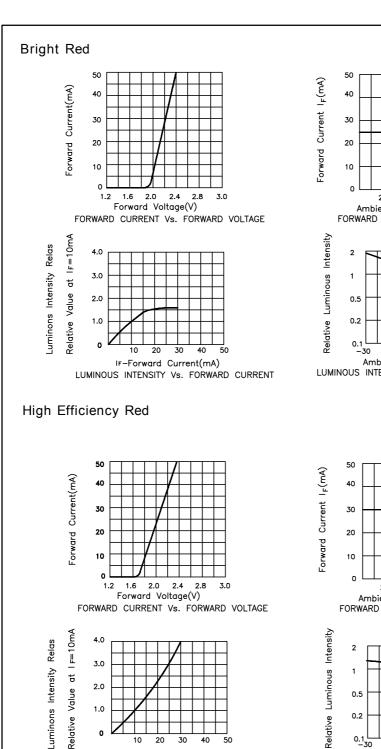
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red High Efficiency Red Green Yellow Super Bright Red	700 625 565 590 660		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Bright Red High Efficiency Red Green Yellow Super Bright Red	45 45 30 35 20		nm	IF=20mA
С	Capacitance	Bright Red High Efficiency Red Green Yellow Super Bright Red	40 12 45 10 95		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Bright Red High Efficiency Red Green Yellow Super Bright Red	2.0 2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All	10		uA	VR = 5V

Absolute Maximum Ratings at T_A =25°C

Parameter	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	120	105	105	105	100	mW
DC Forward Current	25	30	25	30	30	mA
Peak Forward Current [1]	150	150	150	150	150	mA
Reverse Voltage	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C					
Lead Soldering Temperature [2]	260 °C For 5 Seconds					

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





3.0 2.0 1.0

20

IF-Forward Current(mA) LUMINOUS INTENSITY Vs. FORWARD CURRENT

