

PSA05-11EWA/GWA/YWA/SRWA

PSC05-11EWA/GWA/YWA/SRWA

PSA05-12EWA/GWA/YWA/SRWA

PSC05-12EWA/GWA/YWA/SRWA

Features

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

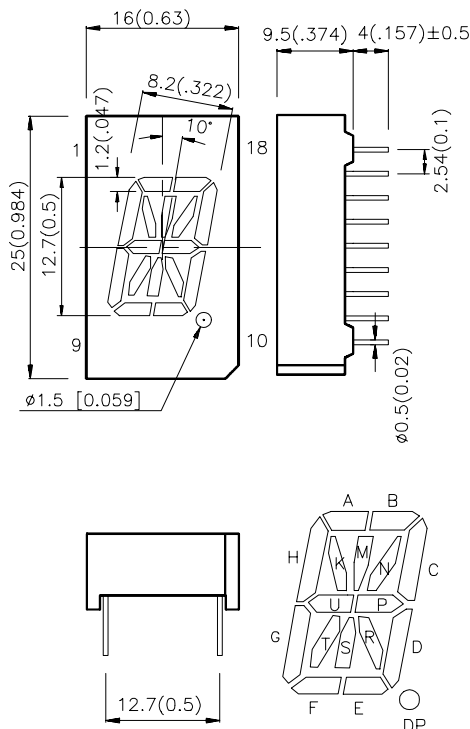
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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

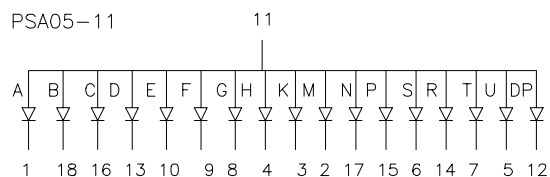
The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions & Internal Circuit Diagram

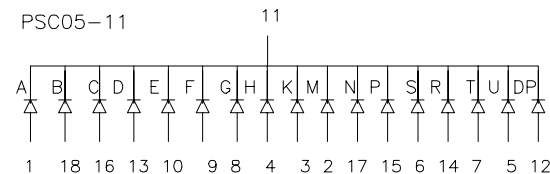
PSA/PSC05-11
PSA/PSC05-12



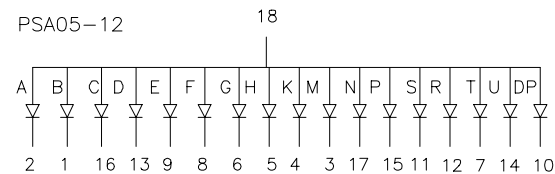
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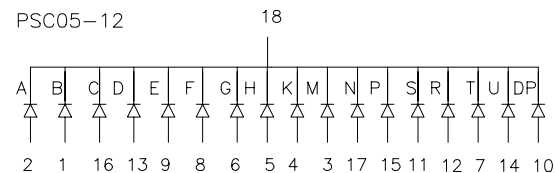
PSC05-11



PSA05-12



PSC05-12



Notes:

1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
2. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Iv (ucd) @ 10 mA		Description
		Min.	Typ.	
PSA05-11EWA PSA05-12EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	1200	4100	Common Anode, Rt. Hand Decimal
PSC05-11EWA PSC05-12EWA				Common Cathode, Rt. Hand Decimal
PSA05-11GWA PSA05-12GWA	GREEN (GaP)	1900	4700	Common Anode, Rt. Hand Decimal
PSC05-11GWA PSC05-12GWA				Common Cathode, Rt. Hand Decimal
PSA05-11YWA PSA05-12YWA	YELLOW (GaAsP/GaP)	1200	3000	Common Anode, Rt. Hand Decimal
PSC05-11YWA PSC05-12YWA				Common Cathode, Rt. Hand Decimal
PSA05-11SRWA PSA05-12SRWA	SUPER BRIGHT RED (GaAlAs)	8000	18000	Common Anode, Rt. Hand Decimal
PSC05-11SRWA PSC05-12SRWA				Common Cathode, Rt. Hand Decimal

Electrical / Optical Characteristics at T_A=25°C

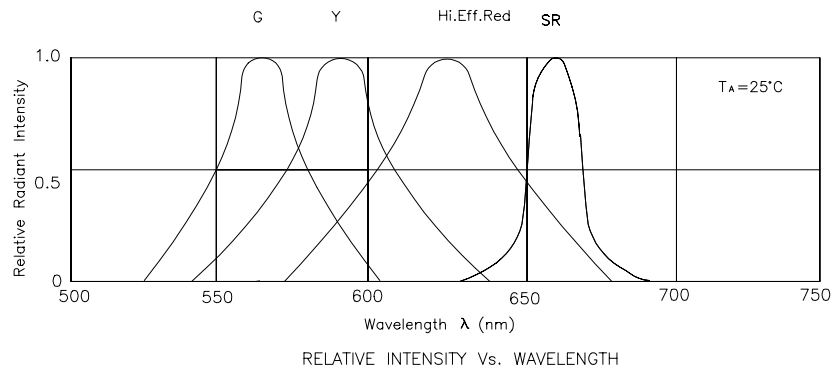
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	627 565 590 660		nm	IF=20mA
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 568 588 640		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	IF=20mA
C	Capacitance	High Efficiency Red Green Yellow Super Bright Red	15 15 20 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red	2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at $T_A=25^{\circ}\text{C}$

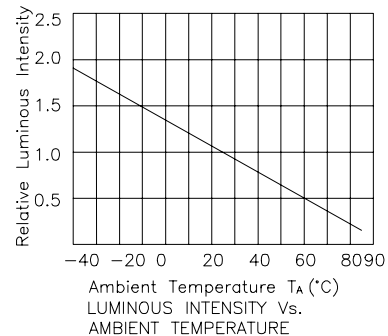
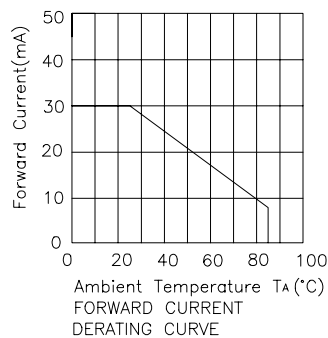
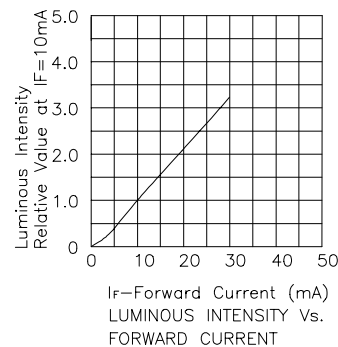
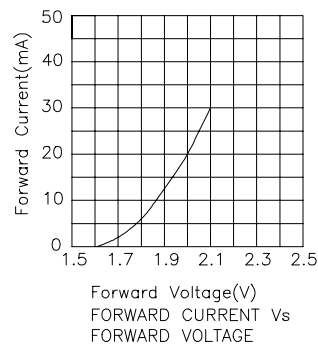
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	105	105	105	100	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	160	140	140	155	mA
Reverse Voltage	5	5	5	5	V
Operating/Storage Temperature	-40°C To $+85^{\circ}\text{C}$				
Lead Solder Temperature [2]	260°C For 5 Seconds				

Notes:

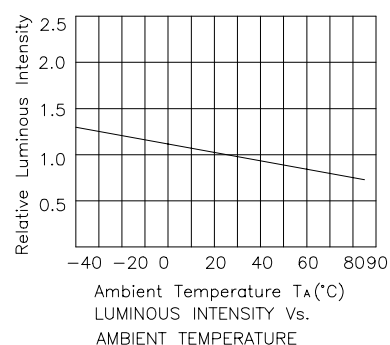
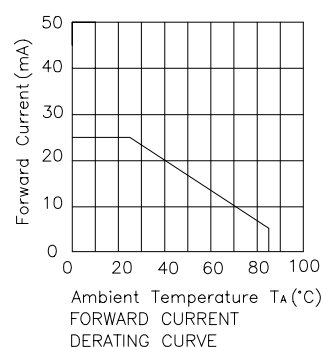
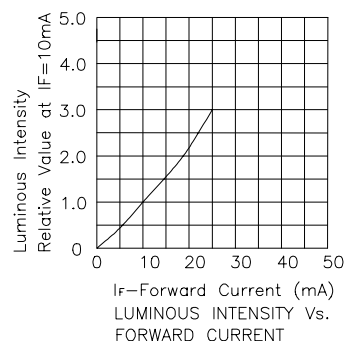
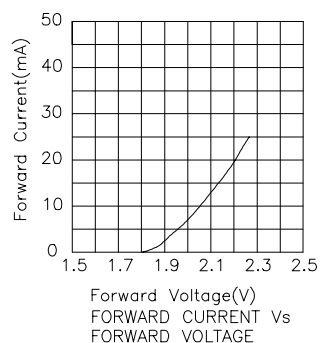
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



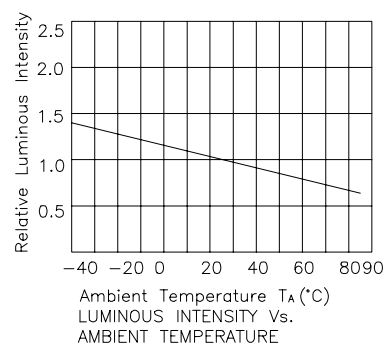
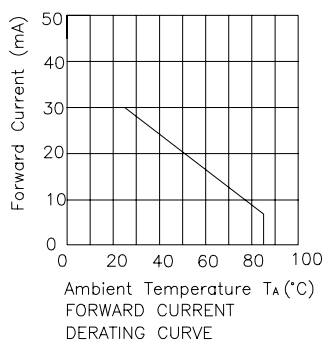
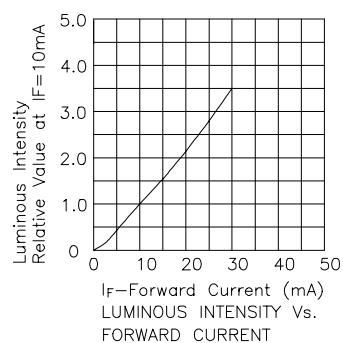
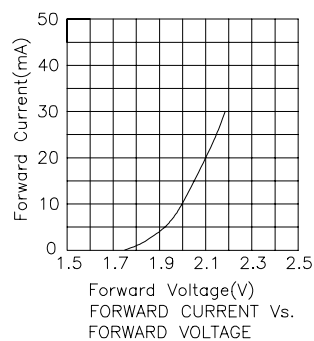
High Efficiency Red



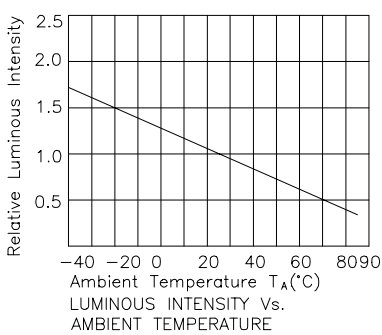
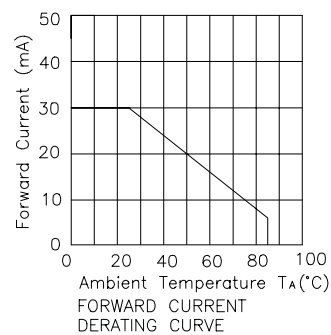
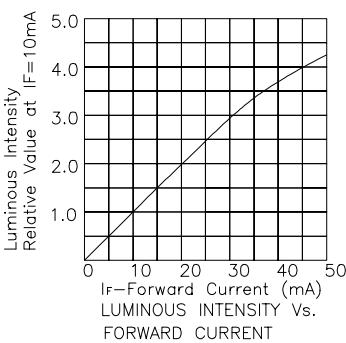
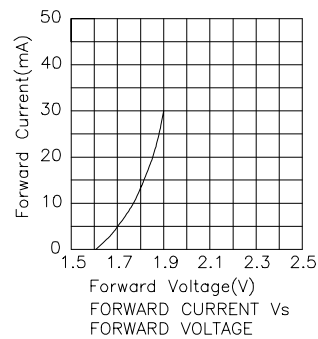
Green



Yellow



Super Bright Red



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