

## Features

- The SPLED is designed to push fit into a round hole in a Vac Form cavity or fascia plate
- Fitted with an Insulation Displacement Connector for ease of wiring
- High intensity White illuminator for incandescent bulb replacement
- Range of decorative colours for special effects without filters
- Low power consumption
- Fitted with reverse voltage protection diode
- Water clear epoxy
- Class II ESD Rating



Patent pending

## Electro / Optical Characteristics White Illuminator $T_a = 25^\circ \text{C}$

Part Number	Emitting Colour	Die Material	Chromaticity Coordinates		Supply Voltage	Current Consumption	Luminous Flux
			x	y			
FEL-F115W28V12	White	InGaN/SiC	0.31	0.32	12	30	4.20
Units			typical		VDC	mA typical	lm typical

## Electro / Optical Characteristics Coloured Illuminator $T_a = 25^\circ \text{C}$

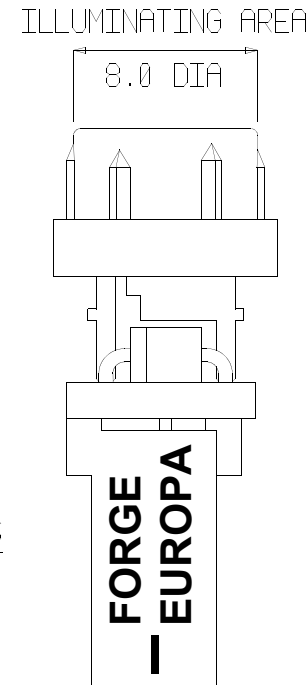
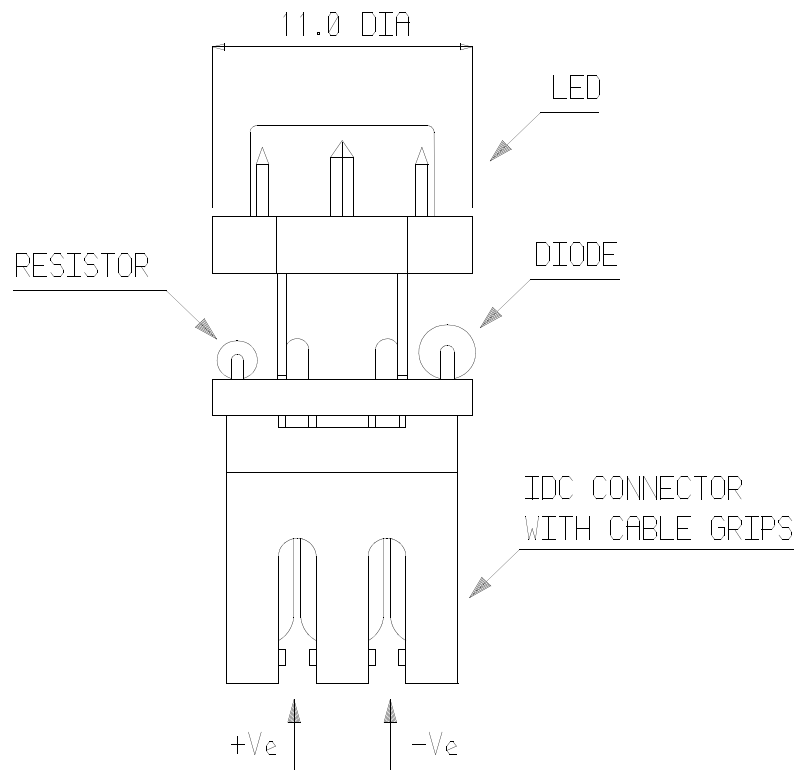
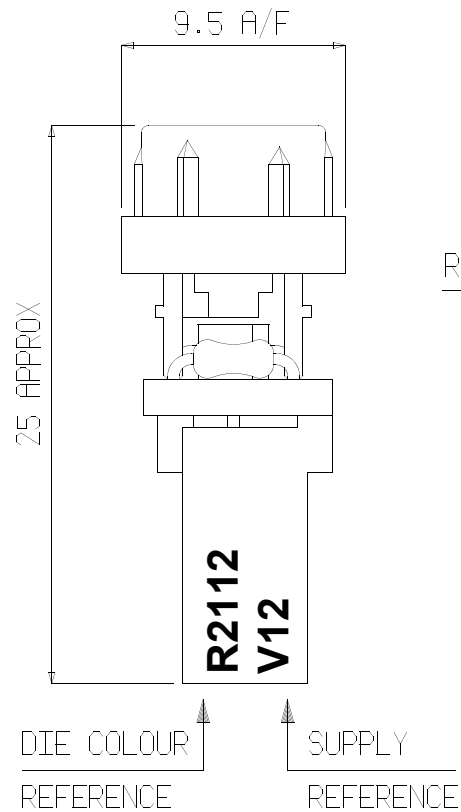
Part Number	Emitting Colour	Die Material	Wavelength		Supply Voltage	Current Consumption	Luminous Flux
			Peak $\lambda_p$	Dominant $\lambda_d$			
FEL-F115R2112V12	Red	AlGaInP	650	635	12	35	3.40
FEL-F115Y1513V12	Yellow	AlGaInP	591	589	12	35	4.70
FEL-F115G16V12	Green	InGaN/SiC	518	527	12	35	2.50
FEL-F115G11V12	Green	InGaN/SiC	502	505	12	35	2.50
FEL-F115B29V12	Blue	InGaN/SiC	N/A	465 $\pm$ 10	12	35	1.10
Units			nm		VDC	mA typical	lm typical

## Temperature Characteristics for all Illuminators

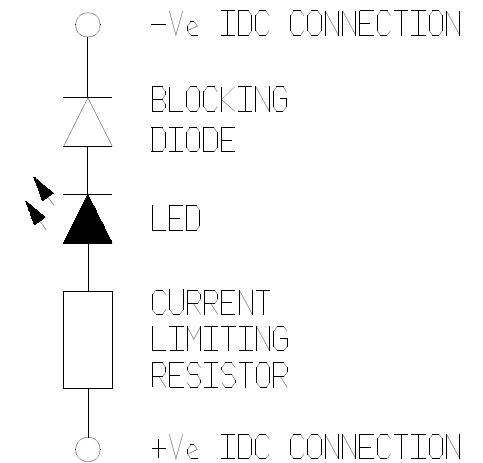
Characteristic	Symbol	Rating	Units
Operating Temperature	$T_{opr}$	- 25 to + 80	$^\circ \text{C}$
Storage Temperature	$T_{stg}$	- 30 to + 85	$^\circ \text{C}$

It is the responsibility of the customer to verify the suitability of the product for the application.

## Package Outline



## Connection Diagram



Tol  $\pm 0.25$  mm unless stated,  
Dimensions in mm

### SPLED Recommended Wire Specification:

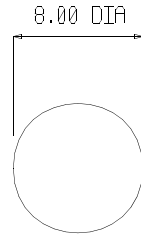
For Auto IDC Insertion Tooling

7/0.2mm tinned copper equipment wire, PVC insulated, 1.2mm outside diameter.

For Manual IDC Insertion Tooling

7/0.25mm tinned copper equipment wire, PVC insulated, 1.3mm outside diameter.

## Mounting Detail



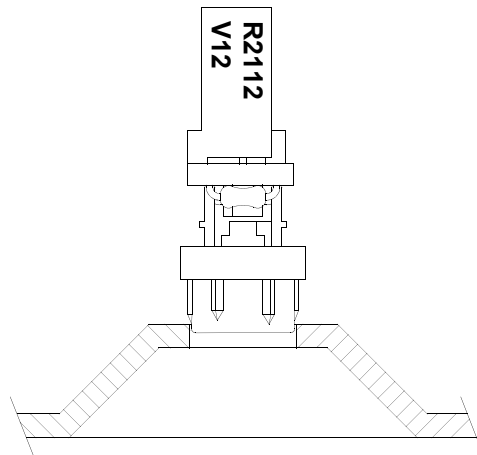
The design diameter for the mounting hole is 8.0 mm.

The matrix material must be of a consistency suitable to allow the splines of the product to produce an interference fit in the mounting hole when the product is assembled.

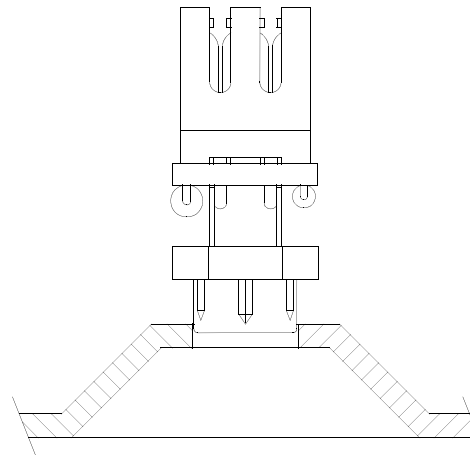
Depending upon the material type and thickness of the mounting matrix the hole size should be adjusted by the user to obtain the required level of push fit force / component retention.

## Assembly Method

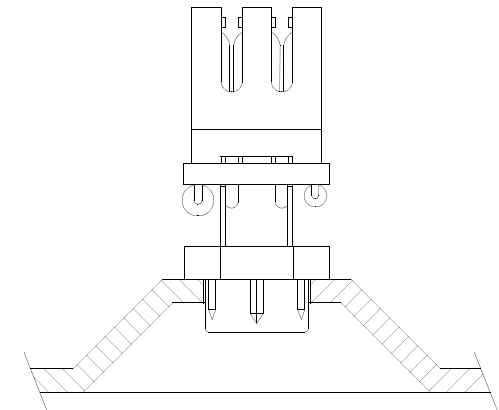
Place the nose of the LED into the mounting hole.



Rotate the product to achieve the required orientation of the connector.



Press the assembly into the mounting hole until the shoulder of the LED is in full contact with the rear of the mounting matrix.



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