

# 532 series



## features



- Ø12.7mm mounting
- Product will operate over a wide voltage range
- Robust stainless steel housing, sealed to IP67
- Colour diffused lens
- 180° viewing angle
- Full internal potting to resist shock & vibration
- True bi-polar product for low voltage DC applications
- Pack Quantity = 10 Pieces

## specifications

Typical characteristics (Ta = 25°C)

Part Number	Colour	Voltage Vac/dc	Current DC (mA)	Luminous Intensity (mcd)	Wave Length (nm)	Operating Temp. (°C)	Storage Temp. (°C)	De-rating Graphs
532-102-63	Red	12-28	6-16	500	660	-40 - +85	-40 - +85	B
532-111-63	Yellow	12-28	8-20	45	590	-40 - +85	-40 - +85	B
532-114-63	Green	12-28	8-20	45	565	-40 - +85	-40 - +85	C
532-102-75	Red	110 Vac	6	500	660	-40 - +85	-40 - +85	B
532-111-75	Yellow	110 Vac	6	45	590	-40 - +85	-40 - +85	B
532-114-75	Green	110 Vac	6	45	565	-40 - +85	-40 - +85	C

^ = Voltage for 20mA product is Vf at 20mA, not Vopr

- Products must be de-rated according to the de-rating information. Each de-rating graph refers to specific LEDs. Please refer to graphs on page 3.

- Luminous intensity is measured at 20mA on a discrete LED unless otherwise stated.

## to order

**to order please contact us on: t: +44 (0)1229 582 430**

**f: +44 (0)1229 585 155 e: sales@marl.co.uk w: www.leds.co.uk**

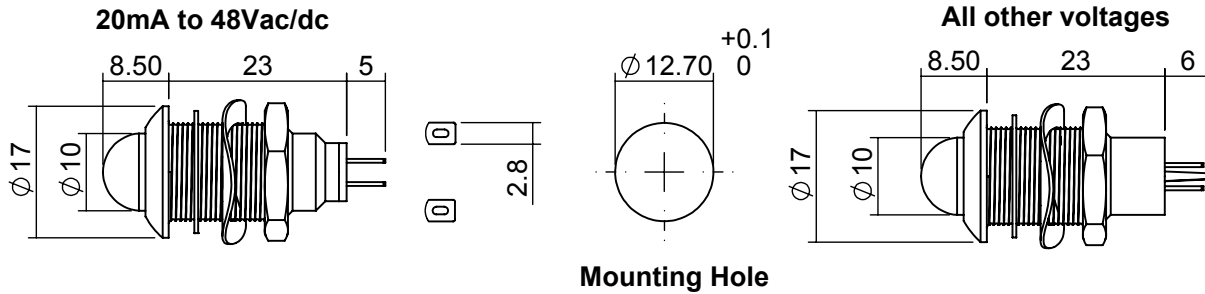
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## technical data



Mounting hole to be clean and burr free.

Dimensions in mm (typical)  
Not to scale

## housing material

## push on connectors

<b>Body</b>	Stainless Steel Grade 303	 <p>925-000-00 is brass tin plated - for use with 532 series lamps</p> <p>Dimensions in mm (typical). Not to scale.</p>
<b>Nut</b>	Stainless Steel Grade 303	
<b>Panel Seal</b>	Viton	
<b>Termination</b>	Copper with Silver flash finish	
<b>Lens</b>	Polycarbonate	
<b>Encapsulation</b>	PC5430 Resin	
<b>Lock Washer</b>	Stainless Steel	
<b>Header</b>	Nylon 6 A82	

## technical characteristics

Series	Max. Power Dissipation	Max. Reverse Voltage	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Max. Panel Thickness
532	825	N/A	12.7	1.0	19.5	1.5 - 8.0
units	mW	Vdc	mm	Nm	mm	mm

\* = Current version

^ = Voltage version

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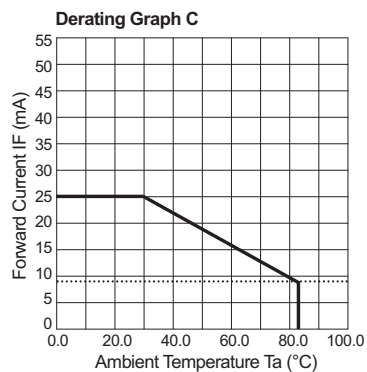
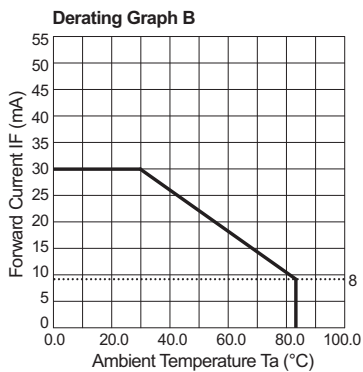
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## de-rating information



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## design considerations

### Electro-Static Discharge (ESD)

Build up of electro-static discharge occurs in many situations involving people moving and handling products. The range of possible situations is very diverse but voltage levels as high as several thousand volts can and do arise in many individual situations. When an operator charged up to these levels handles a static sensitive device, there is a very probable likelihood that the device will be irreversibly damaged. It is essential that precautions are taken at all stages during manufacture and assembly of these products. Although LEDs were never considered to be static sensitive devices, changes in manufacturing technology and materials used to produce higher intensity products over a large range of the wavelength spectrum have changed this. Marl has an approved system of ESD control from goods in, through production and into final packing and despatch. Marl recommend all users of LED based products follow the guidelines of BS 100015.

### Power De-Rating

The forward voltage/ current value of an LED is dependant upon the ambient temperature of the environment in which it is operated. Therefore, care must be taken to operate the LED at the correct voltage/ current values, depending upon the ambient temperature. Consequently, a recommendation regarding operating voltages and currents is given in order to address these temperature effects. This recommendation is termed 'de-rating'. It is usual for forward voltages and currents to be specified for ambient temperature of 25°C. However, because the values of these qualities vary with temperature, please refer to the de-rating graphs for correct operation. Marl accept no liability for any product that is operated higher than the stated voltage.

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