

507 series



features



- Ø8.1mm mounting
- Robust bright nickel plated brass housing
- Low profile styling, sunlight readable LEDs
- Sealed to IP67
- Internal reverse protection diode fitted as standard in all voltage models
- Ideal for high vibration 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
507-501-21	Red	12 Vdc	19	600	630	-40 - +80	-40 - +100	D
507-521-21	Yellow	12 Vdc	19	600	585	-40 - +80	-40 - +100	D
507-532-21	Green	12 Vdc	20	2300	515	-40 - +75	-40 - +100	F
507-930-21	Blue	12 Vdc	20	9870	465	-30 - +85	-40 - +100	U
507-997-21	White	12 Vdc	20	27000	* See below	-30 - +85	-40 - +100	I
507-501-23	Red	28 Vdc	20	600	630	-40 - +80	-40 - +100	D
507-521-23	Yellow	28 Vdc	20	600	585	-40 - +80	-40 - +100	D
507-532-23	Green	28 Vdc	20	2300	515	-40 - +75	-40 - +100	F
507-930-23	Blue	28 Vdc	20	9870	465	-30 - +85	-40 - +100	U
507-997-23	White	28 Vdc	20	27000	* See below	-30 - +85	-40 - +100	I

997F-C	*Typical emission colour White			
x	0.31	-	-	-
y	0.32	-	-	-

- ^ = 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.
 - Intensities (lv) and colour shades of white (x, y co-ordinates) may vary between LEDs within a batch

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

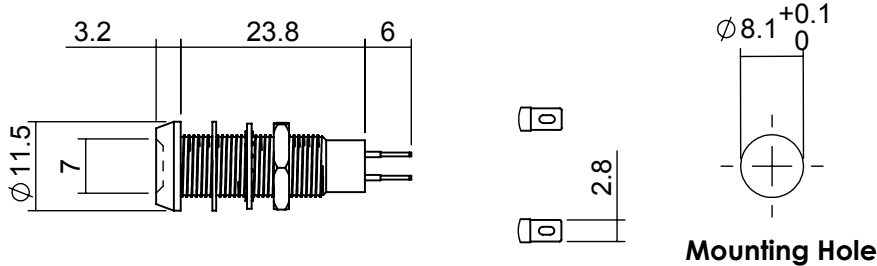
© marl international limited technical documentation has been designed by marl international limited for the intention of providing information, which must not be copied or released to a third party without prior written consent from marl international limited. the information provided does not constitute part of any order or contract and should not be regarded as a representation relating to either products or service. no responsibility can be assumed for inaccuracies or printing errors. marl international limited reserve the right to alter without notice the specification or any conditions of supply for product or service.



507 series



technical data

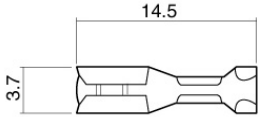


Anode termination indicated by red sleeve.
Mounting hole to be clean and burr free.

Dimensions in mm (typical)
Not to scale

housing material

push on connectors

Body	Brass to BS 2874 CZ121, Nickel plated to BS 1224	 <p>925-000-00 is brass tin plated - for use with 507 series lamps</p> <p>Dimensions in mm (typical). Not to scale.</p>
Nut	Brass to BS 2874 CZ121, Nickel plated to BS 1224	
Panel Seal	Viton	
Termination	Brass to BS 2874 CZ108. Copper flash base, silver flash finish	
Lens	Polycarbonate	
Encapsulation	PC5430 Resin	
Lock Washer Header	Zinc Plated Steel	

technical characteristics

Series	Max. Power Dissipation	Max. Reverse Voltage	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Max. Panel Thickness
507	700	3*/1000^	8.1	0.65	14.5	1.5 - 13.0
units	mW	Vdc	mm	Nm	mm	mm

* = Current version

^ = Voltage version

optional flying lead terminators

Order Code Suffix	Supply Voltage	Wire Colour	Wire Length	No/Diameter of Conductor	Diameter Insulation	Comments
15	DC products	Red-anode/ Black-cathode	150mm	19/0.15mm	1.2mm	Customised lengths available
15	AC products	Brown-live/ Blue-neutral	150mm			
19	DC products	Red-anode/ Black-cathode	1000mm			
19	AC products	Brown-live/ Blue-neutral	1000mm			

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

© marl international limited technical documentation has been designed by marl international limited for the intention of providing information, which must not be copied or released to a third party without prior written consent from marl international limited. the information provided does not constitute part of any order or contract and should not be regarded as a representation relating to either products or service. no responsibility can be assumed for inaccuracies or printing errors. marl international limited reserve the right to alter without notice the specification or any conditions of supply for product or service.

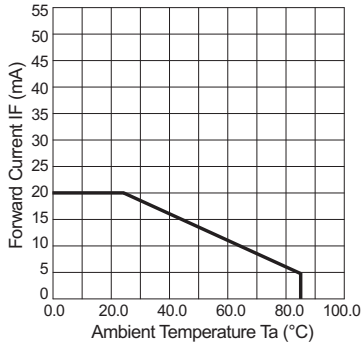


507 series

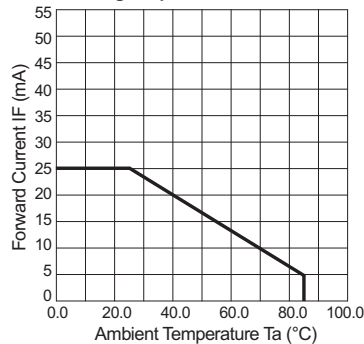


de-rating information

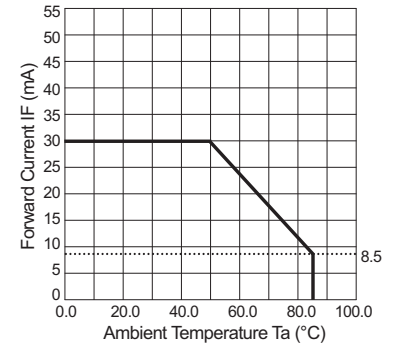
Derating Graph D



Derating Graph F



Derating Graph I



also available

Part numbers also available in the 507 series:

Part Number	Colour	Voltage Vopr	Part Number	Colour	Voltage Vopr
507-501-04	Red	20 mA dc	507-532-04	Green	20 mA dc
507-501-04-15	Red	20 mA dc	507-532-04-15	Green	20 mA dc
507-501-20	Red	5/6 Vdc	507-532-21-15	Green	12 Vdc
507-501-21-15	Red	12 Vdc	507-532-22	Green	24 Vdc
507-501-22	Red	24 Vdc	507-532-23-25	Green	28 Vdc
507-501-22-15	Red	24 Vdc	507-532-24	Green	48 Vdc
507-501-24	Red	48 Vdc	507-532-25	Green	110 Vdc
507-501-25	Red	110 Vdc	507-532-54	Green	32 Vdc
507-501-75-15	Red	110 Vac 50 Hz	507-532-75-15	Green	110 Vac 50 Hz
507-502-23-09	Red	28 Vdc	507-532-75-19	Green	110 Vac 50 Hz
507-503-04	Red	20 mA dc	507-532-86	Green	115 Vac 60 Hz
507-506-23-15	Orange	28 Vdc	507-930-04	Blue	20 mA dc
507-509-04	Yellow	20 mA dc	507-930-22	Blue	24 Vdc
507-509-21	Yellow	12 Vdc	507-930-23-15	Blue	28 Vdc
507-509-23	Yellow	28 Vdc	507-930-75-15	Blue	110 Vac 50 Hz
507-509-75	Yellow	110 Vac 50 Hz	507-997-04	White	20 mA dc
507-509-86	Yellow	115 Vac 60 Hz	507-997-75-15	White	110 Vac 50 Hz
507-512-04	Green	20 mA dc			
507-512-20	Green	5/6 Vdc			
507-512-21	Green	12 Vdc			
507-512-22	Green	24 Vdc			
507-512-23-09	Green	28 Vdc			
507-512-24	Green	48 Vdc			
507-512-75	Green	110 Vac 50 Hz			
507-512-86	Green	115 Vac 60 Hz			
507-512-86-15	Green	115 Vac 60 Hz			
507-521-22	Yellow	24 Vdc			
507-521-23-09	Yellow	28 Vdc			
507-521-75-15	Yellow	110 Vac 50 Hz			

The products listed here illustrate all of the options available to order. These products may have custom modifications that alter their operation beyond the generic information contained within this datasheet. Please contact sales for further information.

RP = Reverse Polarity

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

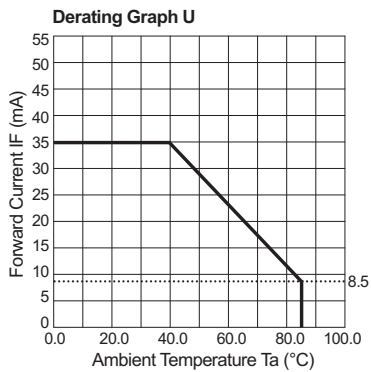
© marl international limited technical documentation has been designed by marl international limited for the intention of providing information, which must not be copied or released to a third party without prior written consent from marl international limited. the information provided does not constitute part of any order or contract and should not be regarded as a representation relating to either products or service. no responsibility can be assumed for inaccuracies or printing errors. marl international limited reserve the right to alter without notice the specification or any conditions of supply for product or service.



507 series



de-rating information continued



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

© marl international limited technical documentation has been designed by marl international limited for the intention of providing information, which must not be copied or released to a third party without prior written consent from marl international limited. the information provided does not constitute part of any order or contract and should not be regarded as a representation relating to either products or service. no responsibility can be assumed for inaccuracies or printing errors. marl international limited reserve the right to alter without notice the specification or any conditions of supply for product or service.



507 series



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.

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**

© marl international limited technical documentation has been designed by marl international limited for the intention of providing information, which must not be copied or released to a third party without prior written consent from marl international limited. the information provided does not constitute part of any order or contract and should not be regarded as a representation relating to either products or service. no responsibility can be assumed for inaccuracies or printing errors. marl international limited reserve the right to alter without notice the specification or any conditions of supply for product or service.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [marl](#) manufacturer:

Other Similar products are found below :

[512-532-22](#) [512-532-23](#) [514-114-76](#) [661-508-64-40](#) [651-102-76](#) [671-066-75](#) [352-509-04](#) [352-505-04](#) [205-997-22-38](#) [524-521-21](#) [677-521-23-Y](#) [512-521-21](#) [671-064-75](#) [677-930-21-19](#) [209-521-23-38](#) [520-325-23](#) [651-114-21](#) [690-997-66](#) [508-930-22](#) [671-062-75](#) [525-095-21-50](#) [512-501-75](#) [531-532-63](#) [524-501-21](#) [514-111-75](#) [508-521-21](#) [520-324-23](#) [215-532-23-38](#) [671-063-23](#) [671-066-23](#) [215-532-76-38](#) [604-998-23](#) [662-303-04](#) [690-521-66](#) [671-064-23](#) [215-521-23-38](#) [677-501-22-R](#) [677-532-21-19](#) [698-532-63](#) [570-320-04-40](#) [514-105-22](#) [512-501-22](#) [570-314-04-40](#) [528-532-22](#) [528-521-22](#) [512-997-22](#) [660-320-64-40](#) [528-501-21](#) [671-290-22](#) [572-314-04](#)