FILAMENT REPLACEMENT LEDs - T1¾ MF SX6s

FEATURES

236 SERIES

PACK QUANTITY = 20 PIECES

- **Direct replacement for T1¾ MF SX6s**
- **Bi-Polar termination**
- **High intensity, single-chip LED technology**
- **Voltage ranges suit both AC and DC operation**

SPECIFICATIONS

Ordering Information & Typical Technical Characteristics (Ta = 25°C)

Mean Time Between Failure = 100,000 Hours. Luminous intensity figures refer to the unmodified discrete LED.

PART NUMBER	COLOUR	LENS	VOLTAGE AC/DC Vopr	CURRENT DC Iopr	LUMINOUS INTENSITY Iv@20mA	WAVE LENGTH λp	OPERATING TEMP Topr	STORAGE TEMP Tstg	RoHS 2002/95/EC
HIGH INTENSITY									
236-042-98	Red	Water Clear	24	10	94	645	-55 ~ +100^	-55 ~ +100	Yes
236-043-98	Yellow	Water Clear	24	10	150	591	-55 ~ +100^	-55 ~ +100	Yes
236-044-98	Green	Water Clear	24	10	460	520	-20 ~ +85^	-30 ~ +100	Yes
236-045-98	Blue	Water Clear	24	10	104	470	-30 ~ +85^	-40 ~ +100	Yes
236-046-98	Cold White	Water Clear	24	10	370	*see below	-30 ~ +85^	-40 ~ +100	Yes
236-038-98	Warm White	Water Clear	24	10	740	**see below	-30 ~ +85^	-40 ~ +100	Yes
236-042-93	Red	Water Clear	28	8	94	645	-55 ~ +100^	-55 ~ +100	Yes
236-043-93	Yellow	Water Clear	28	8	150	591	-55 ~ +100^	-55 ~ +100	Yes
236-044-93	Green	Water Clear	28	8	460	520	-20 ~ +85^	-30 ~ +100	Yes
236-045-93	Blue	Water Clear	28	8	104	470	-30 ~ +85^	-40 ~ +100	Yes
236-046-93	Cold White	Water Clear	28	8	370	*see below	-30 ~ +85^	-40 ~ +100	Yes
236-038-93	Warm White	Water Clear	28	8	740	**see below	-30 ~ +85^	-40 ~ +100	Yes
UNITS			**Vac/dc**	**mA**	**mcd**	**nm**	**^{0}C**	**^{0}C**	

046	*Typical emission colour cool white			
x	0.296	0.283	0.330	0.330
y	0.276	0.305	0.360	0.318

038	**Typical emission colour warm white			
x	0.3545	0.3610	0.4970	0.4580
y	0.3408	0.3850	0.4466	0.3838

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

^ = Products must be derated according to the derating information. Each derating graph refers to specific LEDs.

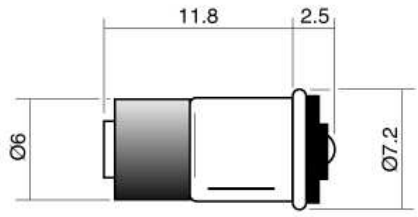
Appropriate LED numbers shown. - Refer to page 3.

How to Order:

website: www.marl.co.uk • email: sales@marl.co.uk •

• Telephone +44 (0)1229 582430 • Fax: +44 (0)1229 585155

236 Series



Dimensions in mm (Typical)
Not to scale

Colour dot on product denotes LED colour

TECHNICAL INFORMATION

Lamp Base Style	Series	Metric Equivalent (mm)	Maximum Power Dissipation (mW)
T1¾ MG SX6s	236	6	270

DESIGN CONSIDERATIONS

Product Evaluation

Filament Replacement LEDs have been specifically designed to meet the primary objective of providing improved reliability. As this product range is suitable for both new-build and retro-fit, (sometimes in very old systems), a wide range of illuminated push button switches and lamp holders can be encountered. Due to subjectivity, evaluation of the LED type is recommended, (samples of all standard models are available). care should be taken to correctly simulate operating ambient light conditions to ensure that the correct device has been selected to maximise viewing characteristics such as viewing angle, colour compatibility and on/off contrast ratio.

Electro-static Discharge (ESD)

Build up of electrostatic 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. We recommend all users of LED based products follow the guidelines of BS 100015.

Power derating

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, Marl should be contacted if the device is to be operated at a temperature significantly higher than 25°C.

Marl accept no liability for any product that is operated higher than the stated voltage.

Note: All luminous intensity figures refer to the unmodified discrete LED.

How to Order:

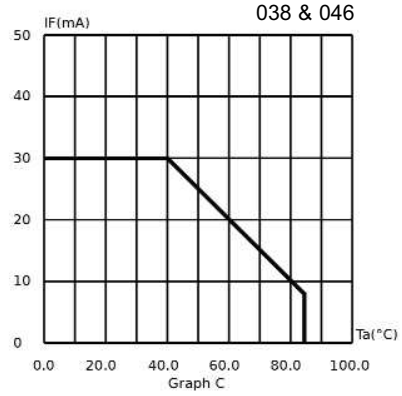
website: www.marl.co.uk • email: sales@marl.co.uk •

• Telephone +44 (0)1229 582430 • Fax: +44 (0)1229 585155

BS EN ISO 9001:2000
Approved Manufacturer

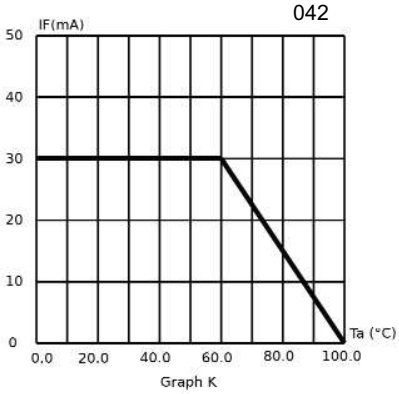
DERATING INFORMATION

038 & 046



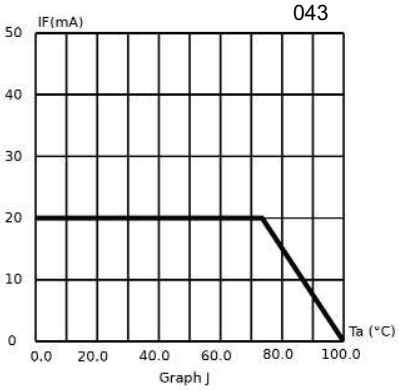
Graph C

042



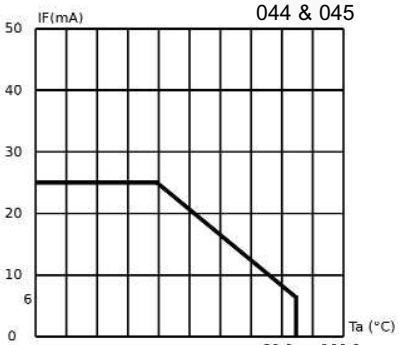
Graph K

043



Graph J

044 & 045



Graph I

How to Order:

website: www.marl.co.uk • email: sales@marl.co.uk •

• Telephone +44 (0)1229 582430 • Fax: +44 (0)1229 585155

BS EN ISO 9001:2000
Approved Manufacturer

SAMPLES AVAILABLE

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Marl ***manufacturer:***

Other Similar products are found below :

211-997-21-38 677-532-23 671-066-75 508-521-20 508-930-20 604-998-21 651-102-23 651-111-23 215-532-23-38 671-064-75 209-521-23-38 215-532-76-38 205-521-21-38 604-301-23 508-930-22 671-062-75 512-532-76 528-532-22 671-063-23 671-066-23 651-105-23 508-521-22 206-997-21-38 512-997-22 671-064-23 604-324-21 215-521-23-38 538-501-63 508-997-23 524-501-21 572-314-04 531-930-63 528-521-22 255-501-64-38 508-521-21 677-501-20 692-997-23 531-501-63 528-501-21 209-993-21-38 512-521-21 660-314-64 524-521-22 508-501-22 677-501-21-19 677-501-23 512-501-21 573-502-04-40 524-532-22 512-997-76