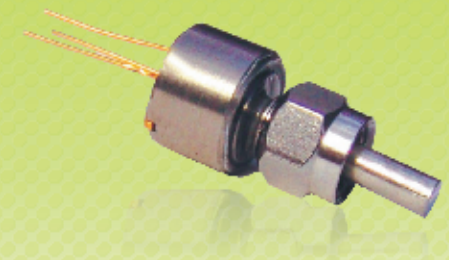
Fiber Coupled SMA 905 UV LED

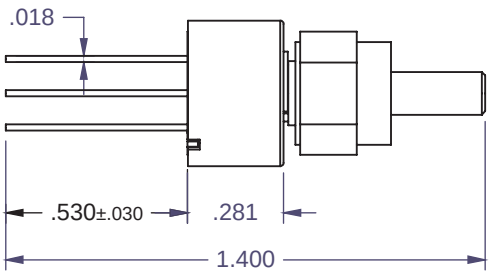
General Microtechnology & Photonics
Systems for Industry, Research, Telecom & Medicine

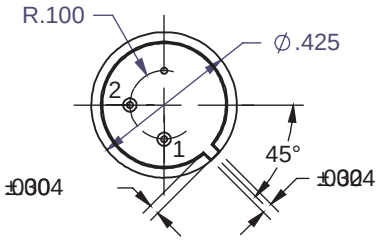


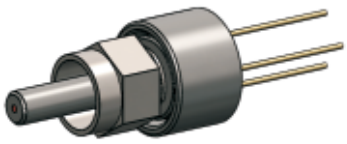
Our Deep UV LEDs are offered in a wide range of wavelengths and package sizes. These devices are manufactured using AlGaN/GaN technology. This specialized technology has enabled a new generation of “high band-gap energy” opto-electronic devices that can perform down to 240nm.

The small size and cost of these UV LEDs enable applications that were not previously possible. LEDs are dramatically smaller and consume significantly less power than current UV light technologies. The numerous advantages of UV LEDs over conventional UV sources make them ideal for integrating into new and existing applications requiring UV light.

Product Diagram for Fiber Coupled SMA 905 LED (T0-39)







PIN	FUNCTION	POLARITY
1	ANODE	POS
2	CATHODE	NEG

See back for technical info and pricing ↵

For Orders or Inquiries

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Technical Data

Our "Deep UV LEDs" come in several standard configurations depending on the type of output that is needed. The "fiber coupled version" is great for applications where the flexibility of a standard fiber optic light delivery is needed. All LEDs are coupled to a small UV grade .22NA fiber with a 600um core diameter. This is done through a proprietary micro-lensing technique to gain the highest possible efficiency.

In addition to stock items, we can also provide custom solutions such as high power arrays and packages with built in photonic feedback. We also offer a complete line of accessories to work with our UV LEDs. These include several LED power supply designs from simple OEM boards to multi channel USB controllers with time domain and intensity control. There are also many accessory options designed to help mount these UV LEDs into existing optical systems.

Specifications:
Fiber Coupled SMA 905 LED (T0-39)

Parameter	Unit	Maximum rated value	Ambient Temperature
Power Dissipation, DC	mW	150	25° C
Forward current, DC	mA	30	25° C
Pulse Forward Current (duty cycle=1%, freq.= 1kHz)	mA	200	25° C
Reverse Voltage	V	6	25° C
Storage Temperature	° C	-30 ~ +100	

Electro-optical characteristics [UVTOP® -280, Ta=25° C, research grade]

Parameter	Symbol	Unit	Minimum	Typical	Maximum	Condition
Forward voltage	VF	V	5.5	7.5	9	IF=20mA
Reverse Current	I R	µA	100	VR=5V		
Output UV power	Pout	mW	0.5			IF=20 mA
Peak Wavelength	λp	nm	-10nm	specified	+10nm	IF=20 mA
Spectrum Half Width	HW	nm	12	20	30	IF=20 mA

*All LEDs between 240nm and 310nm are sorted in increments of peak wavelength -0nm +5nm, and LED from 315n to 355nm are sorted in increments of -0 to +10nm

T0-39 Wavelengths λ nm	Optical Power P_{out} (µW) Min.	Optical Power P_{out} (µW) Typ.	Lifetime Typical (hours) at 20mA	Price per unit
240	2	100		$454
245	2	100		$434
250	2	500		$409
255	2	500		$409
260	20	800		$389
265	20	800		$369
270	20	1000		$339
275	20	1000		$319
280	20	2000		$309
285	20	2000		$299
290	20	4000		$289
295	20	4000		$289
300	20	8000		$279
305	20	8000		$279
310	20	8000		$269
315	20	8000		$269
325	20	8000		$259
335	20	8000		$239
345	20	8000		$219
355	20	8000		$199

How to Order: Volume Discount Packages

Order **10** of any style or any wavelength LED and receive a **5%** discount.
Order **20** of any style or any wavelength LED and receive a **10%** discount.
Order **50** of any style or any wavelength LED and receive a **15%** discount.
Order **100** of any style or any wavelength LED and receive a **23%** discount.
Order **500** of any style or any wavelength LED and receive a **32%** discount.

**Pricing subject to change without notice. Call for exact pricing.*

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