




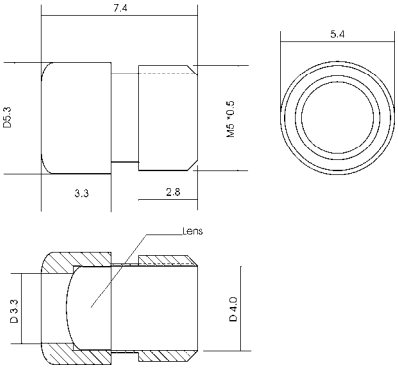
Distributed by **Boston Electronics Corporation**
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Specifications (T=22 °C)

| | | | | |
|---|--------------------|----|----------------|--|
| Optically Immersed 4.7 μm LED | | | LED47SC | |
| in heat-sink optimized housing | | | | |
| Peak wavelength | λ | μm | 4.7±0.1 | |
| Spectral width FWHM | | μm | 0.55±0.05 | |
| Current test conditions: | Pulse duration | τ | ≤10 | |
| | Pulse period | T | ≥1000 | |
| Voltage at drive current I=1 A | U _{pulse} | V | 0.9 to 1.1 | |
| Pulsed power at I=1 A | P _{pulse} | μW | ≥40 | |
| CW power at I=200 mA (attached to a heatsink) | P _{CW} | μW | ≥10 | |
| Switching time | τ | ns | ≤20 | |

Package detail

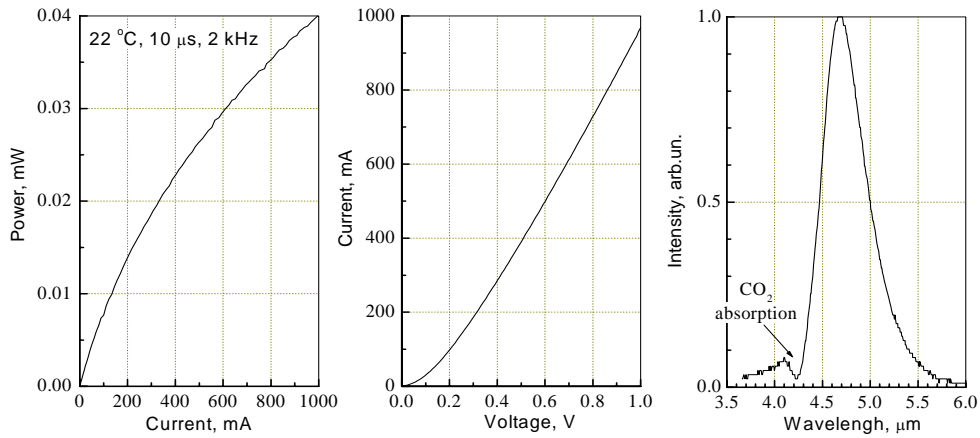
| Package code | Thread | Emission size | Far-field pattern FWHM | Far-field pattern deviation | Operation (storage) conditions | Polarity |
|--------------|--------|---------------|------------------------|-----------------------------|--------------------------------|---------------------------------------|
| | | mm | deg. | deg. | °C | |
| Screw | M5×0.5 | Ø 3.2 | ≤40 | ±10 | -25÷+60 (+80) | short wire or black point is negative |

| | | |
|---------------|---|---|
| Package photo |  |  <p>M5 thread</p> |
|---------------|---|---|

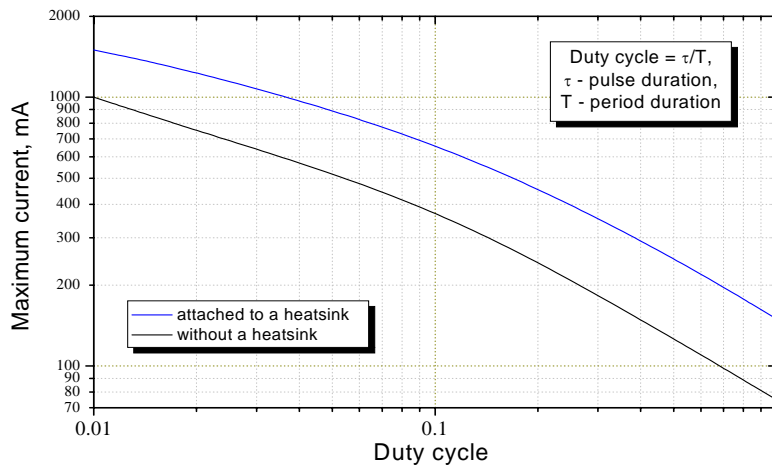
Available accessories include driver electronics and detectors.

Available wavelengths include 3.0, 3.4, 3.6, 3.8, 4.2, and 5.4 μm.

Current-voltage curve, current dependence of output power; and emission spectrum at 22 °C.



Max current vs. duty cycle



Output power and emission spectra maximum vs. temperature and far-field pattern

