

Infra Red LED

LED47SC



| Optically Immersed 4.7 μm LED in heat-sink optimised housing | | | | LED47Sc |
|--|-----------------|----|----------|---------|
| Peak wavelength | λ_{max} | μm | 4.7±0.05 | |
| Pulsed power at I=1 A | P_{pulsed} | μW | 25±5 | |
| CW power at I=200 mA | P_{CW} | μW | 5±1 | |
| Switching time | τ | ns | ≤20 | |

| Code | Thread | Emission size, mm | Lens material | Far-field pattern FWHM, deg. | Operation (storage) conditions, °C | Polarity |
|-------------|--------|-------------------|-----------------------------|------------------------------|------------------------------------|---------------------------------------|
| LED47Sc | M5×0.5 | Ø 3.3 | Si | ≤20 | -25 - +60 (+80) | short wire or black point is negative |
| LED47TO8TEC | | | Si lens and sapphire window | | | See fig. below |

| | LED47Sc | LED47TO8TEC |
|--------------|---------|-------------|
| Product view | | |
| | | |

- ✓ All devices are stressed at 80°C and I=200 mA (CW) for 10 hrs before final test and shipping.
- ✓ Beam divergence of the LEDs is small and thus we recommend adjusting LED position regarding the detector system before final evaluation/use of the devices.
- ✓ All data is valid for room temperature (22°C) and LED attached to a heatsink. A heatsink is important for normal LED operation especially in the CW mode.
- ✓ Available accessories include driver electronics and detectors.
- ✓ Available wavelengths include 1.9, 2.15, 3.0, 3.4, 3.6, 3.8, 4.2, 4.7, 5.5 and 7.0 μm.
- ✓ Devices emit negative luminescence at reverse bias.

