

# LIGHT EMITTING DIODES 1.6÷4.6 $\mu\text{m}$

## Model LED38-TEC-PR

3.8  $\mu\text{m}$  16  $\mu\text{W}$

- Light Emitting Diodes **LED38-TEC-PR** are designed for emitting at a spectral range around 3800 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on InAs substrates
- Light Emitting Diodes **LED38-TEC-PR** are developed for using in optical gas sensors and medical diagnostics. Such construction gives possibility for temperature stabilization of LED parameters. Lifetime is more than 10000 hours.
- Related products: Our standard **LED Driver** provides power supply of **LED38-TEC-PR** in two recommended here regimes (Quasi-CW and Pulsed).



Parameters	Min	Typ	Max
Wavelength, $\mu\text{m}$	3.70	3.80	3.90
FWHM, $\mu\text{m}$	0.60	0.70	0.80
Optical Power, $\mu\text{W}$			
Quasi-CW @ 200 mA	12	16	20
Pulsed @ 2A	180	200	220
Switching Time, ns	10	30	50
Range of temperature control $^{\circ}\text{C}$	-10÷+60		
Emitting Area, $\mu\text{m}$	300x300		
Soldering temperature	95 $^{\circ}\text{C}$		
Package	TO-5 with Thermocooler, Thermistor and Parabolic Reflector		

Package TO-5 with Parabolic Reflector

