

LED38 Light Emitting Diode

Parameter	Rating	units	Conditions	
Peak emission wavelength	3.8	μm	300K	
Spectral bandwidth (FWHM)	0.4	μm	300K	
Radiant output power	60	μW	2.5% duty cycle, 3A pulse current	
Operating currents	500-600	mA*	Pulsed	
	2.0-2.5	A**	Peak current	
Rise time	200	nS	300K	
Temperature drift of band	2	nm/K		
Encapsulation			TO18 (TO-5 / TO-8 opt.)	
Lens/Window material			Sapphire window	
Field of View	60	deg.		
Efficiency, % (not less)	0.04			
Application		Radiation absorbed by hydrocarbon (such as methane),		
	Environmental monitoring, IR spectroscopy			

Notes:

- recommended detector is room temperature photovoltaic MCT detector model PDI-4 or TEcooled photovoltaic MCT model PDI-2TE-4; or room temperature photoconductive MCT detector PCI-5 or TE-cooled photoconductive detector model PCI-2TE-4
- DO NOT connect/disconnect the LED while the pulse generator is in operation
- Square pulses of 500µs duration and 1KHz repetition frequency
- Square pulses of 50µs duration and 500Hz repetition frequency



