



# LED18-10

## Light Emitting Diode

Parameter	Rating	units	Conditions
Peak emission wavelength	1.8	$\mu\text{m}$	300K
Spectral bandwidth (FWHM)	0.36	$\mu\text{m}$	300K
Radiant output power (@300mA):	90	$\mu\text{W}$	2.5% duty cycle
Operating Currents	100-200	mA	pulsed*
	0.8-1.0	A	(peak current)**
Rise time	100	nS	
Temperature drift of band	2	nm/K	
Encapsulation	TO-18 (TO-5 opt.)		Lens / Window
Mesa diameter	1	mm	
Field of View	60	deg.	

### Notes

- recommended detector is room temperature photovoltaic MCT detector model PDI-4 or TE-cooled photovoltaic MCT model PDI-2TE-4; or room temperature photoconductive MCT detector PCI-4 or TE-cooled photoconductive detector model PCI-2TE-4
- DO NOT connect/disconnect the LED while the pulse generator is in operation
- the lead nearest to the tag of TO-header is the anode and marked with a red dot.
- the cathode is connected to the case
- \* square pulses of 500 $\mu\text{sec}$  duration and 1 KHz repetition frequency
- \*\* square pulses of 50 $\mu\text{sec}$  duration and 500 Hz repetition frequency

