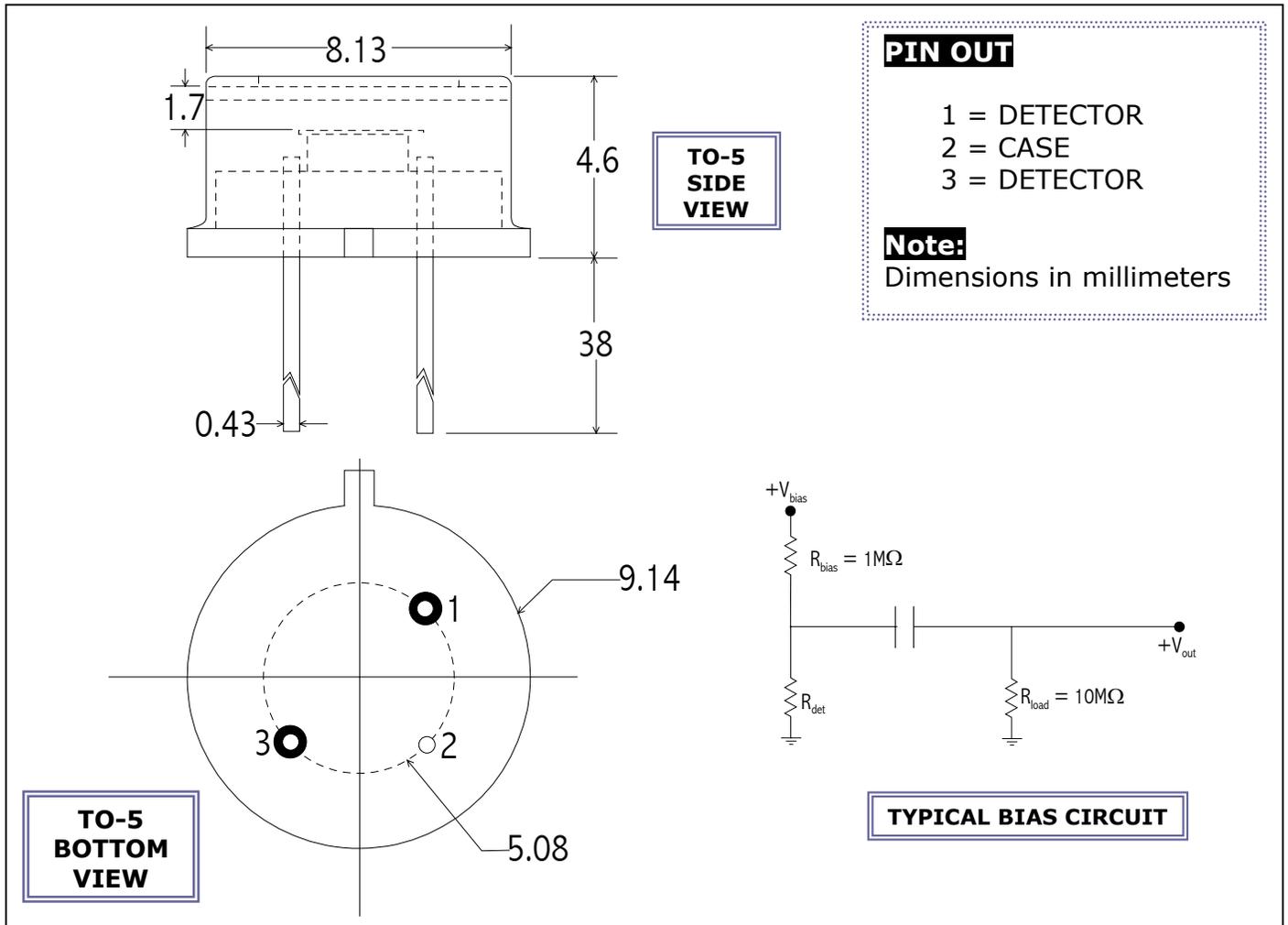


## PBS - SERIES PHOTOCONDUCTOR



**Application Note** ELECTRO OPTICAL SYSTEMS offers room temperature and thermoelectrically cooled photoconductive detectors. The units have state-of-the-art sensitivity and may be supported by accessories such as optical filters (longpass and bandpass), integral preamplifiers, temperature controllers and infrared source assemblies. These units find applications in industrial control systems, gas analyzers, thermal sensors, and general infrared instrumentation.

### SPECIFICATIONS

Part Number	PBS - 020	PBS - 030
Active Area	2mm x 2mm	3mm x 3mm
Operating Temperature (°C)	22	
Operating Wavelength	1.0 – 2.8 microns	
Dark Resistance (MΩ)	0.5 – 2.0	
Time Constant (μs),	300 typ	
Voltage Bias (V)	100 with 1M series resistor	
Responsivity @ $\lambda_p$ (V/W)	$2 \times 10^5$	$1 \times 10^5$
$D^* @ \lambda_p$ (cm Hz <sup>1/2</sup> /W)	$1 \times 10^{11}$	