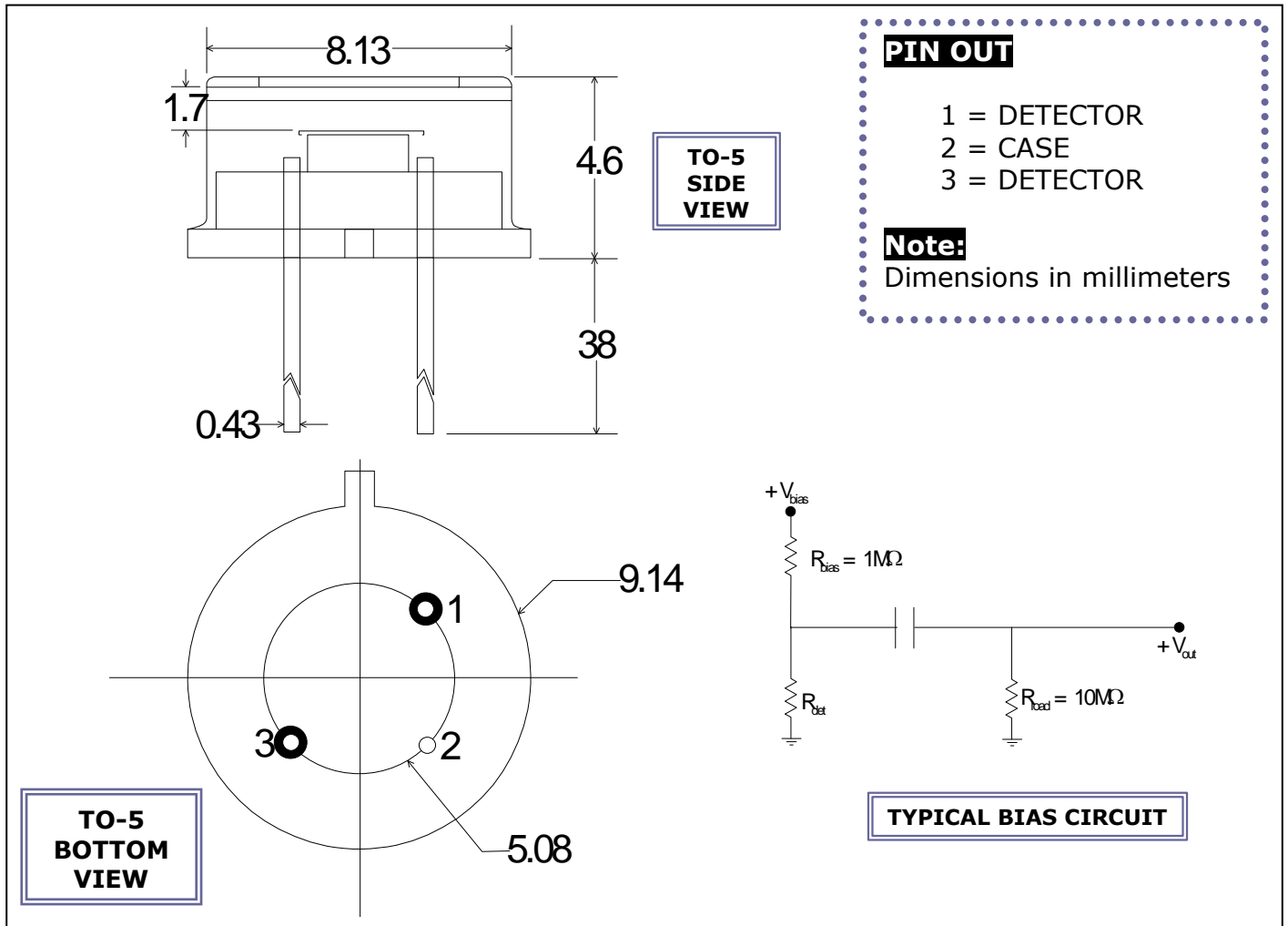


## PBS - SERIES PHOTOCONDUCTOR



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