

**MODEL 509-0015**

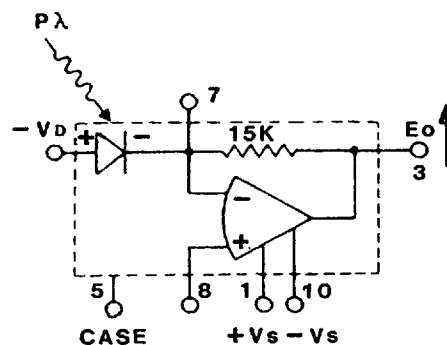
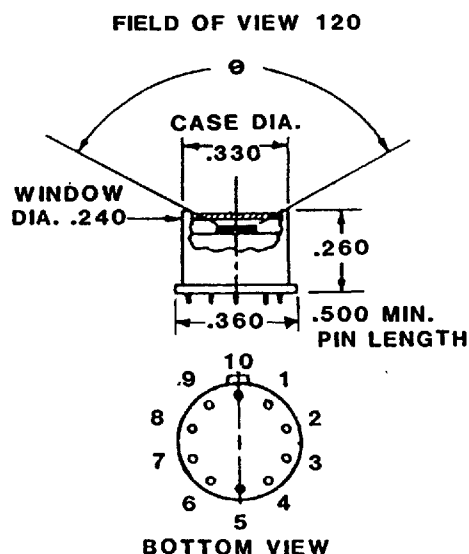
T-41-67

**HIGH SPEED SILICON PHOTO DIODE OPTICAL DETECTOR**[查询"509-0015"供应商](#)

T = 25 DEGREES C

 $V_S = \pm 6 \text{ V}$ 

PARAMETERS	CONDITIONS	VALUES (TYPICAL)	UNITS
Responsivity R	$\lambda = 900\text{nm}$ $V_D = -15\text{V}$	$7 \times 10^3$	Volts/Watt
Bandwidth, 3db BW	$V_D = -45\text{V}$	$25 \times 10^6$	Hertz
Risetime, 10-90% $T_R$	$V_D = -45\text{V}$	$14 \times 10^{-9}$	Seconds
NEP	$\lambda = 900\text{nm}$ $V_D = -45\text{V}$	$4 \times 10^{-12}$	Watts/ $\sqrt{\text{Hertz}}$
Output Noise Voltage	$V_D = -45\text{V}$	$30 \times 10^{-9}$	Volts/ $\sqrt{\text{Hertz}}$
Bias Voltage $V_D$		-15 to -50V max.	
Diode Active Area (2.5mm diameter)		5	$\text{mm}^2$
Supply Voltage $V_S$		$\pm 7$	Volts max.
Supply Current $I_S$	$V_S = \pm 6\text{V}$	11	mA
Temperature $T_A$		0 to 70° operating -25 to 125° storage	°C
Maximum Ratings	Incident flux 300mw/cm <sup>2</sup> continuous		
Package	T0-5		

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