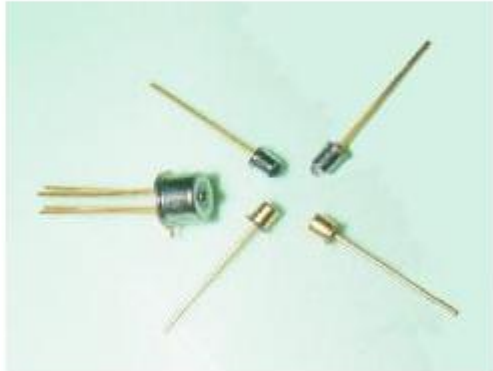


WSPD-IGA-300-mini

<b>Mini Can InGaAs PIN Potodetector</b>	
<p><b>Features:</b></p> <ul style="list-style-type: none"> <li>Mini-can package with max. physical size of 2.41mm</li> <li>High responsivity</li> <li>Very low dark current</li> <li>Single +5V power supply</li> <li>Hermetically sealed 1 or 2pin metal case</li> <li>-40~+85°C operating range</li> </ul>	

**Absolute maximum rating**

Parameter	Symbol	Value	Unit
Reverse voltage	$V_r$	Over 20	V
Maximum optical input power	$P_{max}$	10	mW
Forward current	$I_f$	8	mA
Operating temperature	$T_{op}$	-40 ~ +125	°C
Storage temperature	$T_{stg}$	-50 ~ +125	°C

**Optical and electrical characteristics ( $V_R=5V$ ,  $T_a=25^\circ C$ , unless otherwise specified)**

Parameter	Symbol	Typ Value	Unit	Test condition
Active area diameter	$\phi$	300	$\mu m$	
Wavelength responsivity	$\lambda f$	0.85~1.65	$\mu m$	
Bandwidth	B	1	GHz	$R_L=50 \Omega$ $V_r=5v$
Responsivity	$\lambda=1310 \text{ nm}$	R	0.85	A/W
	$\lambda=1550 \text{ nm}$	R	0.9	A/W
Dark current	$I_D$	1	nA	$V_r=5v$
Saturation power	P	6	dB	$V_r=5v$
Total capacitance	C	4.5	pF	$f=1 \text{ MHz}$ $V_r=5v$
Responsivity uniformity	$\Delta R$	$\pm 0.2$	dB	1530 ~ 1620 nm $T_a=-10 \text{ to } +85^\circ C$
Chips size	S	500*500*180+/-10um	$\mu m$	
Chips fitting tolerance	Dt	$\pm 30$	$\mu m$	



