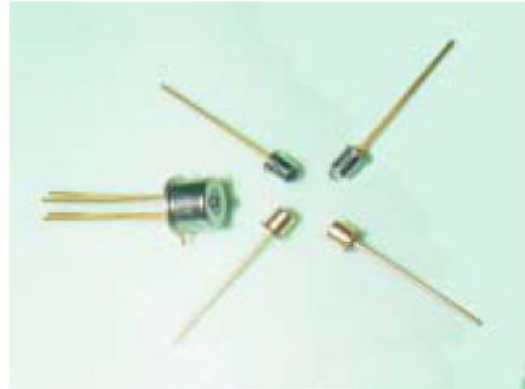




Mini Can InGaAs PIN Photodetector

Features:

Mini-can package with max. physical size of 2.41mm
 High responsivity
 Very low dark current
 Single +5V power supply
 Hermetically sealed 1-pin metal case
 -40~+85 • operating range

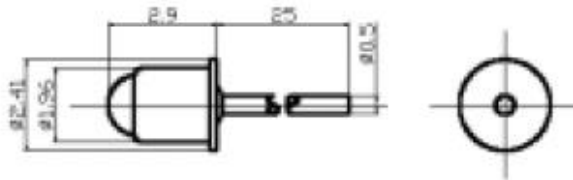


Absolute maximum rating

Parameter	Symbol	Value	Unit
Reverse voltage	V_r	Over 20	V
Maximum optical input power	P_{max}	6/10	MW
Forward current	I_f	4/8	MA
Operating temperature	T_{op}	-40 • +125	• •
Storage temperature	T_{stg}	-50 • +125	• •

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

Parameter	Symbol	Value	Unit	Test condition
Active area diameter	ϕ	75/300	μm	
Bandwidth	B	1.5/0.5	GHz	$R_L=50$ • •
Responsivity	$\lambda=1310\text{ nm}$	R	0.85/0.8	A/W
	$\lambda=1550\text{ nm}$	R	0.9/0.85	A/W
Dark current	I_D	0.3/1	nA	
Total capacitance	C	0.6/6	pF	$f=1\text{ MHz}$
Responsivity uniformity	• R	• 0.2	dB	1530 • 1620 nm $T_a=-10\text{ to }+85$ • •



Pin assignment

