

# PRODUCT INFORMATION

1300 nm	<b>1A391</b> High-Performance PIN	<b>WDM Telecom</b>
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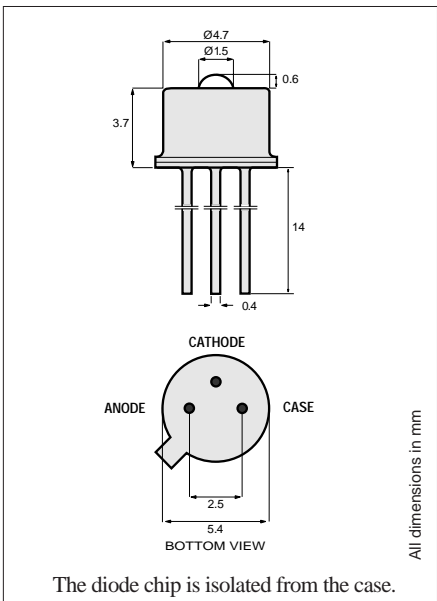
This device has a built-in filter, designed by bandgap engineering, which suppresses 1550nm wavelength. This results in very low crosstalk in 1300/1550nm WDM applications. Its double-lens optical system is designed for single-mode fiber as well as for multimode fiber with core diameter up to 62.5µm. And when used in the Pigtail-3A package, the optical return loss is very high.

Optical and Electrical Characteristics (25° C Case Temperature)						
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Responsivity	$R$	0.65	0.83	0.001	A/W	$\lambda=1300\text{nm}$ $\lambda=1550\text{nm}$
Bandwidth	$f_c$	2.5			GHz	$R_L=50\Omega$
Capacitance	$C$		0.8	1.2	pF	$f=1\text{MHz}$
Dark Current	$I_d$			3	nA	

Operating Conditions:  $V_R=5\text{V}$ . Fiber: Single-mode to multimode 62.5/125µm.



Absolute Maximum Ratings		
PARAMETER	SYMBOL	LIMIT
Storage Temperature	$T_{stg}$	-55 to +125° C
Operating Temperature	$T_{op}$	-55 to +125° C
Reverse Voltage	$V_R$	20V
Soldering Temperature (2mm from the case for 10 sec)	$T_{sld}$	260° C



**TO-46 Package With Lens**

Thermal Characteristics					
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
Temperature Coefficient - Dark Current	$dI_d/dT_j$		5		%/°C

12966.11 1998-02-04



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