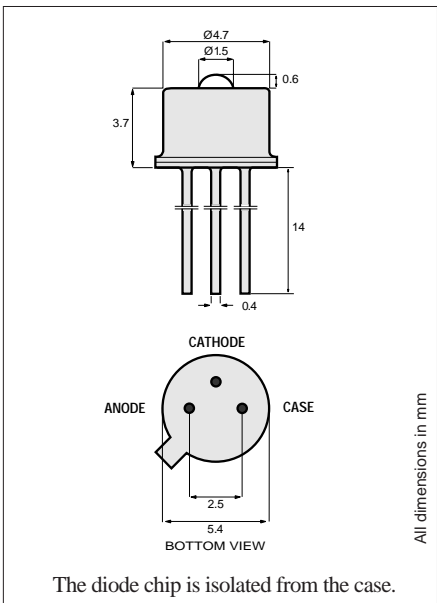


PRODUCT INFORMATION

1550 nm	1A426 High-Performance PIN	WDM Telecom
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This device has a built-in filter, designed by bandgap engineering, which suppresses 1300nm 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.



TO-46 Package With Lens

Optical and Electrical Characteristics (25° C Case Temperature)						
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Responsivity	R	0.85	0.002 1.0	0.004	A/W	$\lambda=1300\text{nm}$ $\lambda=1550\text{nm}, f>40\text{MHz}$
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

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

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