



REV 09/01

Features

Top-illuminated InGaAs/InP pin photodiode High speed response: t_{FWHM} 100 ps Diameter of light sensitive area 75 μ m Wire bondable or flip-chip solder able High responsivity from 800 to 1600 nm

Product Description

The PDCS75T is an InGaAs/InP very high speed photodiode chip with pad outline and metallization suitable for a wide range of mounting options. The top-illuminated p-i-n photodiode structure offers excellent responsivity and high speed of response for the wavelength region 800 to 1600 nm. The photodiode, which achieves full speed already at 1.5 volt bias, is intended for use in high-speed receiver front-ends and for optical measurement equipment with picosecond time resolution.

Specifications @ T=25°C

Parameter		Sym	Min	Тур	Max	Unit	
Responsivity	λ = 1550 nm	R		0.85		A/W	
	λ = 1300 nm			0.85			
Total capacitance		Съ		0.5		pF	ĺ
CW optical power		Pcw			3	dBm	ĺ
Bias voltage		V+		<2		V	ĺ
Dark current	V _r = 2.5 V	ΙD		10		nA	
Optical-Electrical Bandwidth		В	3	5		GHz	
Optical pulse response		tғwнм		100		ps	



