



RLC-P85A306

GaAs PIN Photodiode LC Receptacle, 1.5GHz Bandwidth

Data Sheet

Overview

The Lasermate RLC-P85A306 is a GaAs-based photodiode module designed for fiber optic data communication applications. Featuring high responsivity at 850nm and a 1.5GHz bandwidth, the device comes in a pre-aligned LC-type Receiver Optical Sub-Assembly (ROSA), ensuring consistent optical coupling. It supports reliable operation in a wide temperature range from -40°C to +85°C.

Features

- GaAs PIN photodiode
- High responsivity at 850nm
- 1.5GHz bandwidth
- Operating temperature: -40°C to +85°C
- Pre-aligned plastic LC ROSA

Applications

- SONET OC-3
- ATM 155Mbps

Specifications

Absolute Maximum Ratings				
Parameters	Min.	Max.	Unit	Conditions
Storage Temperature	-40	100	°C	
Operating Temperature	-40	85	°C	
Soldering Temperature		260	°C	10 seconds max
Forward Current		10	mA	

Electro-Optical Characteristics (CW @ T=25°C)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Responsivity	R	0.4	0.5		A/W	$V_R=5V$, $\lambda=850nm$
Dark Current	I_D			2	nA	$V_R=5V$
Breakdown Voltage	V_{BD}	20			V	$I_R=10\mu A$
Capacitance	C	-	1.2	1.5	pF	$V_R=5V$, $f=1MHz$
Bandwidth (3dB)	BW	1.5	-	-	GHz	$V_R=5V$
Central Wavelength	λ_c	830	850	880	nm	$V_R=5V$

