

KPPB1-LG125

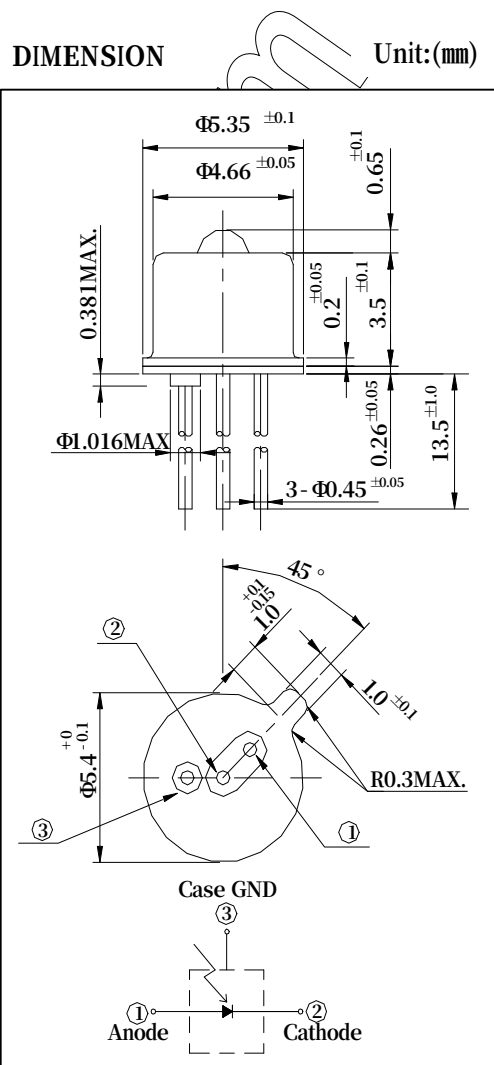
InGaAs PIN Photodiode is high sensitive and reliable for data and telecommunication applications.

FEATURES

Industry standard TO-46 package with cap lens.
 Optimized for fiber optic application.
 High coupling efficiency to multi-mode fibers directly.
 Low dark current and low capacitance.

APPLICATIONS

Optical fiber communications
 Fiber channel
 Gigabit Ethernet



ABSOLUTE MAXIMUM RATINGS

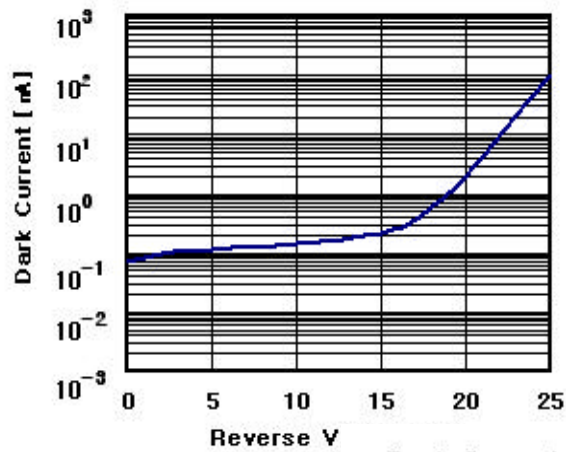
Item	Symbol	Ratings	Unit
Operating Temperature	$T_{opr.}$	-40~+80	°C
Storage Temperature	$T_{stg.}$	-40~+100	°C
Reverse Voltage	V_R	30	V
Reverse Current	I_R	0.5	mA
Forward Current	I_F	2	mA

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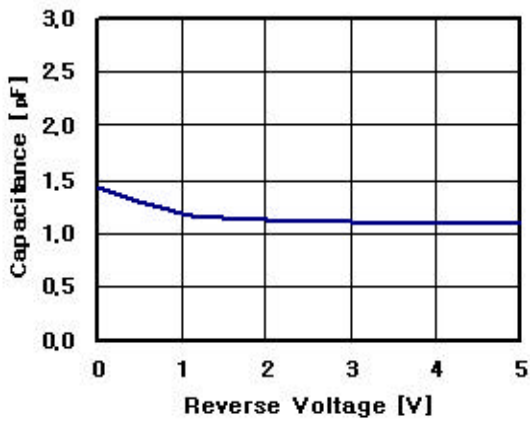
ELECTRO-OPTICAL CHARACTERISTICS

Parameter		Symbol	Min	Typ	Max	Unit	Test Conditions
Active area		-	-	Φ 50	-	μm	
Spectral response range		λ	0.9	-	1.7	μm	
Peak sensitivity wavelength		λp		1.55		μm	
Photo sensitivity	λ=1.3μm	S	0.8	0.9	-	A/W	V _R =5V
	λ=1.55μm		0.85	0.95	-		
Dark current		I _{DARK}	-	0.1	1	nA	V _R =5V
3 dB cut-off frequency		f _{-3dB}	2.0			GHz	V _R =5V, R _L =50Ω
Terminal capacitance		C _t	-	1.0	1.3	pF	V _R =5V, f=1MHz

Dark Current vs. Reverse Voltage



C-V characteristics



Dark Current vs. Operating Temperature

