

FU-15PD-M1

PD MODULE FOR LONG WAVELENGTH BAND

DESCRIPTION

FU-15PD-M1 is detector module containing highly reliable InGaAs Photodiode for long wavelength band (1~1.6 μ m).

InGaAs photodiode has very low dark current. These modules are used as detector for high-speed and long haul optical communication systems.

FEATURES

- High-speed response ($f_c=1.5$ GHz)
- Low dark current (1nA max)
- High-responsivity (0.8A/W)
- Easy handling
- Receptacle type

APPLICATION

FitL, LAN



ABSOLUTE MAXIMUM RATINGS (Tc=25°C)

Parameter	Symbol	Conditions	Rating	Unit
Reverse voltage	Vr	-	20	V
Reverse current (CW)	Ir	-	1	mA
Forward current (CW)	If	-	10	mA
Operating case temperature	Tc	-	-40~+85	°C
Storage temperature	Tstg	-	-40~+85	°C

ELECTRICAL/OPTICAL CHARACTERISTICS (Tc=-40~+85°C, unless otherwise noted)

Parameter	Symbol	Test Conditions	Limits			Unit
			Min.	Typ.	Max.	
Detection range	-	-	1000	-	1600	nm
Responsivity (Note 1)	R	$\lambda=1310\pm 20$ nm, Vr=5V	0.7	-	-	A/W
Dark current	Id	Vr=5V, Tc=25°C	-	-	1	nA
		Vr=5V, Tc=70°C	-	-	10	
		Vr=5V, Tc=85°C	-	-	20	
Cut-off frequency (-3dB)	fc	Vr=5V, RI=50 Ω	1	1.5	-	GHz
Capacitance	Ct	f=1MHz, Vr=5V	-	1	1.3	pF

Note 1. Fiber : GI type with core dia. 50 μ m and N.A.0.2

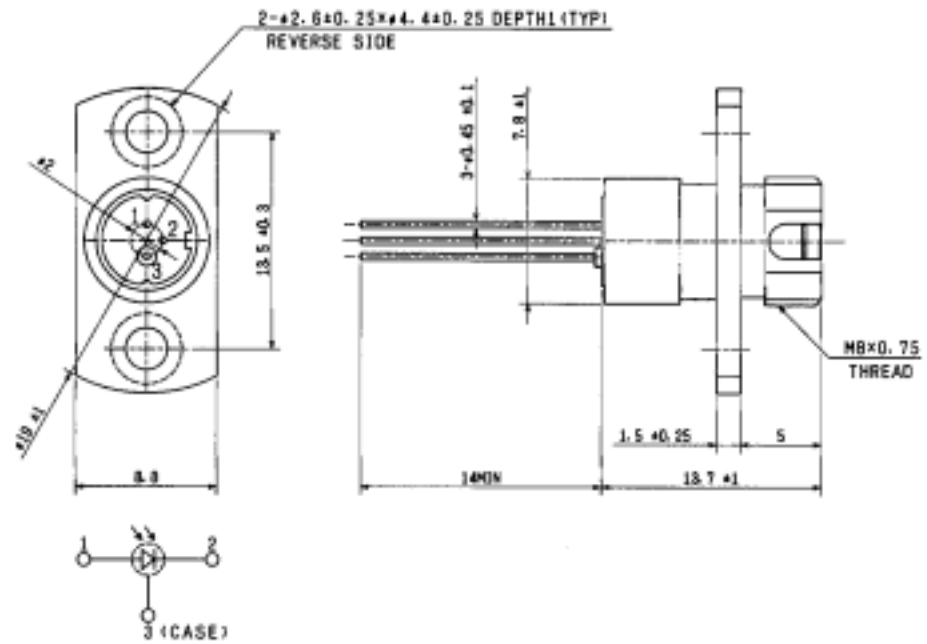
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OUTLINE DIAGRAM

(Unit : mm)

NOTES 1. TOLERANCES UNLESS NOTED ± 0.5



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