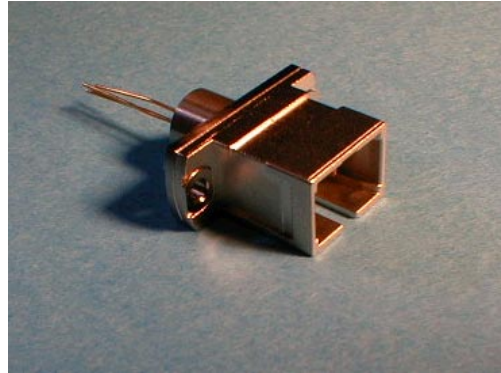


MITSUBISHI (OPTICAL DEVICES)
FU-112PD-M1

PD MODULE FOR LONG WAVELENGTH BAND

DESCRIPTION

FU-112PD-M1 is detector module containing highly reliable InGaAs(pin photodiode) for long wavelength band (1~1.6 μ m) and high-speed response. These module are used as detector for high-speed, long haul optical communication systems.



FEATURES

- High-speed response ($f_c=1.5\text{GHz}$)
- Low dark current (1nA max)
- High-responsivity (0.8A/W)
- Easy handling
- Connectorised package for SC connector

APPLICATION

FitL,LAN

ABSOLUTE MAXIMUM RATINGS ($T_c=25^\circ\text{C}$)

Parameter	Symbol	Conditions	Rating	Unit
Reverse voltage	V_r	-	20	V
Reverse current	I_r	-	1	mA
Forward current	I_f	-	2	mA
Operating case temperature	T_c	-	-40~+85	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-40~+85	$^\circ\text{C}$

ELECTRICAL/OPTICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$, unless otherwise noted)

Parameter	Symbol	Test Conditions	Limits			Unit
			Min.	Typ.	Max.	
Detection range	-	-	1000	-	1600	nm
Responsivity (Note 1)	R	$\lambda=1300\text{nm}, V_r=5\text{V}$	0.65	0.8	-	A/W
Dark current	I_d	$V_r=5\text{V}$	-	-	1	nA
Cut-off frequency (-3dB)	f_c	$R_l=50\Omega, V_r=5\text{V}$	1	1.5	-	GHz
Capacitance	C_t	$f=1\text{MHz}, V_r=5\text{V}$	-	1	2	pF

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

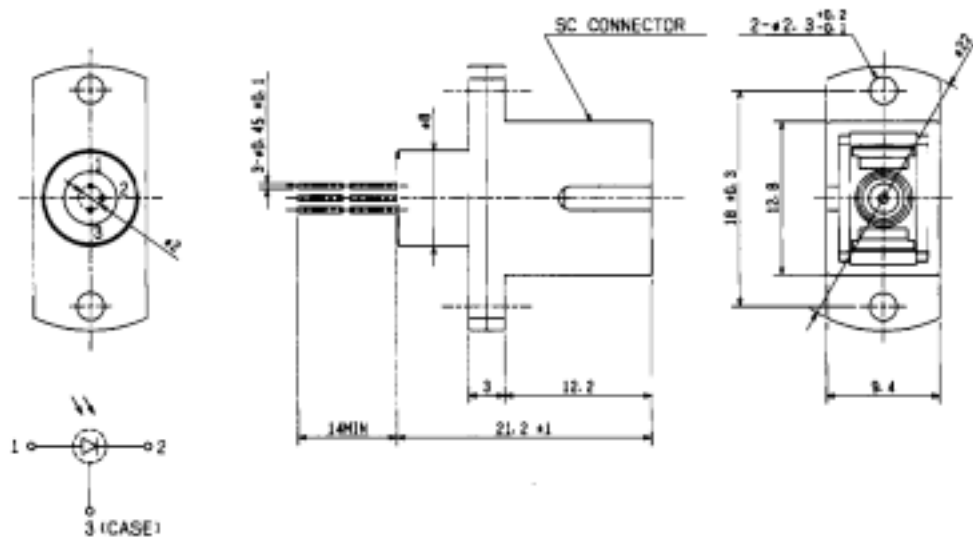
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OUTLINE DIAGRAM

(Unit : mm)

NOTE 1. TOLERANCES UNLESS NOTED ± 0.5



FU-112PD-M1