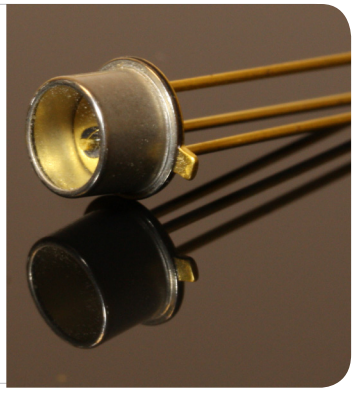
Marktech Optoelectronics

High Speed InGaAs PIN Photodiode

Product No: **MTPD1346D-100**

Sensitivity Wavelength Range: 600nm ~ 1750nm

The 1346 series from Marktech, a high sensitivity and high reliability product series, is ideally suited for Optical Communication devices. Custom packaging options for this die are also available.



FEATURES

> High Speed Response (Max: 2Gbps)
> TO-46 Metal Can Package
> Active Area of 1.0mm / High Sensitivity
> Spectral Range: 600nm - 1750nm

APPLICATIONS

> High Speed Optical Communications
> Industrial Controls
> Optical Switches
> LIDAR
> Medical

Absolute Maximum Ratings (Ta=25°C)

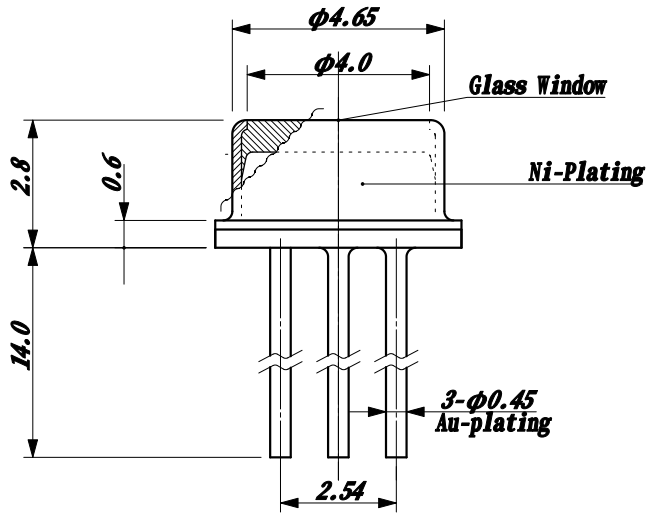
ITEMS	SYMBOL	RATINGS	UNIT
Active Area	Φ	1.0	mm
Operating Temperature Range	Topr	-40 to +85	°C
Storage Temperature Range	Tstg	-40 to +125	°C

Electrical & Optical Characteristics (Ta = 25°C)

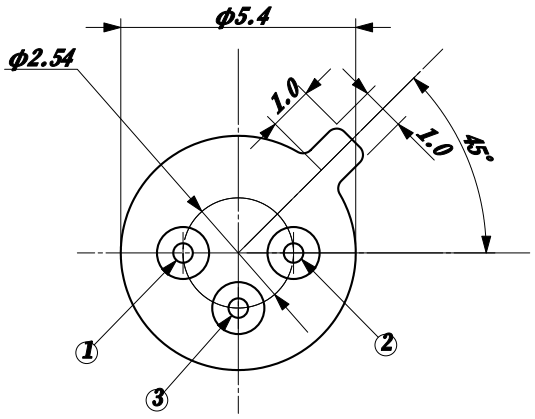
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage	VR	IR=10uA	3	--	--	V
Sensitivity Range	λ	VR=0V	600	--	1750	nm
Dark Current	ID	VR=1V	--	--	2.0	uA
Junction Capacitance	C	VR=0V	--	60	--	pF
Light Current @1300nm *1	IL	λ=1300nm; *2	--	180	--	uA
Responsivity	R	λ=1550nm	--	0.70	--	A/W
Quantum Efficiency	QE	λ=1660nm	--	55	--	%
Shunt Resistance	RSH	VR=10mV	--	2	--	MΩ
Switching Times	Tr, Tf	VR=2V	--	0.63	--	ns

*1: As mounted on TO-46 header without resin coating. *2: VR=2V

2021-08-17



Unit: mm, Tolerance: ±0.2

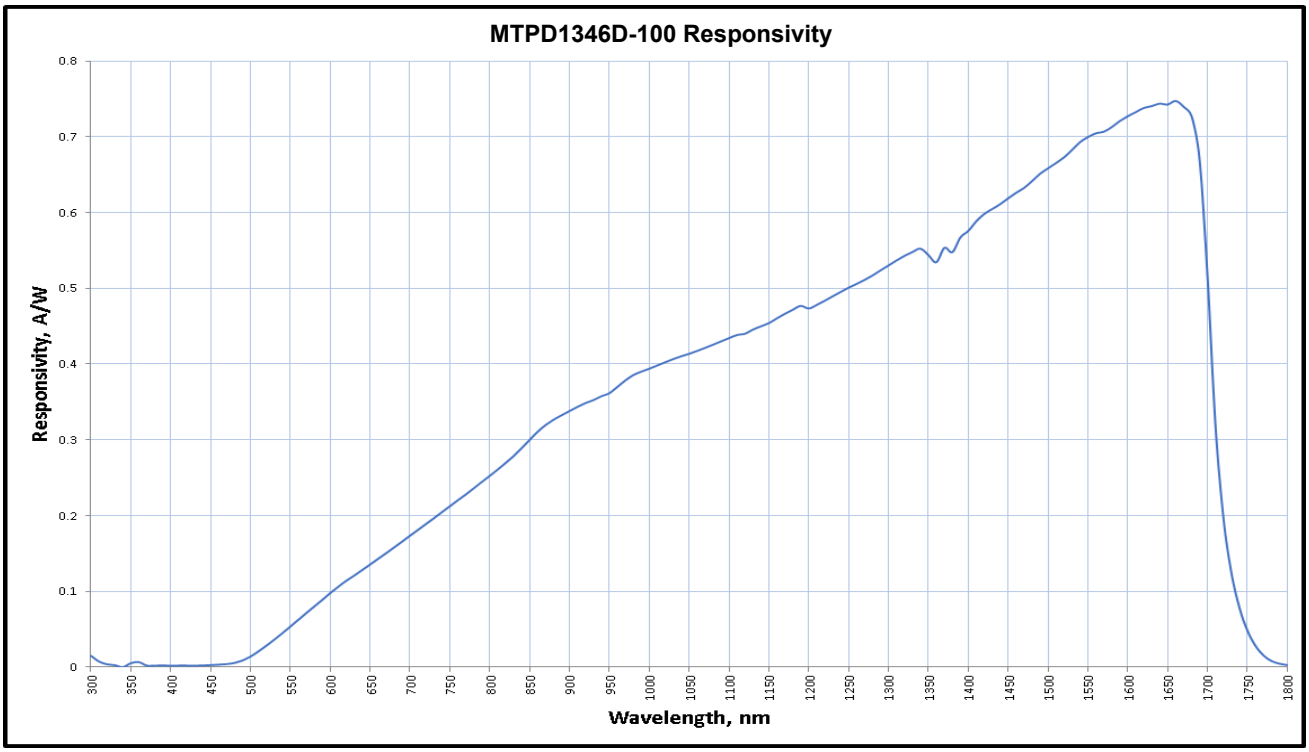


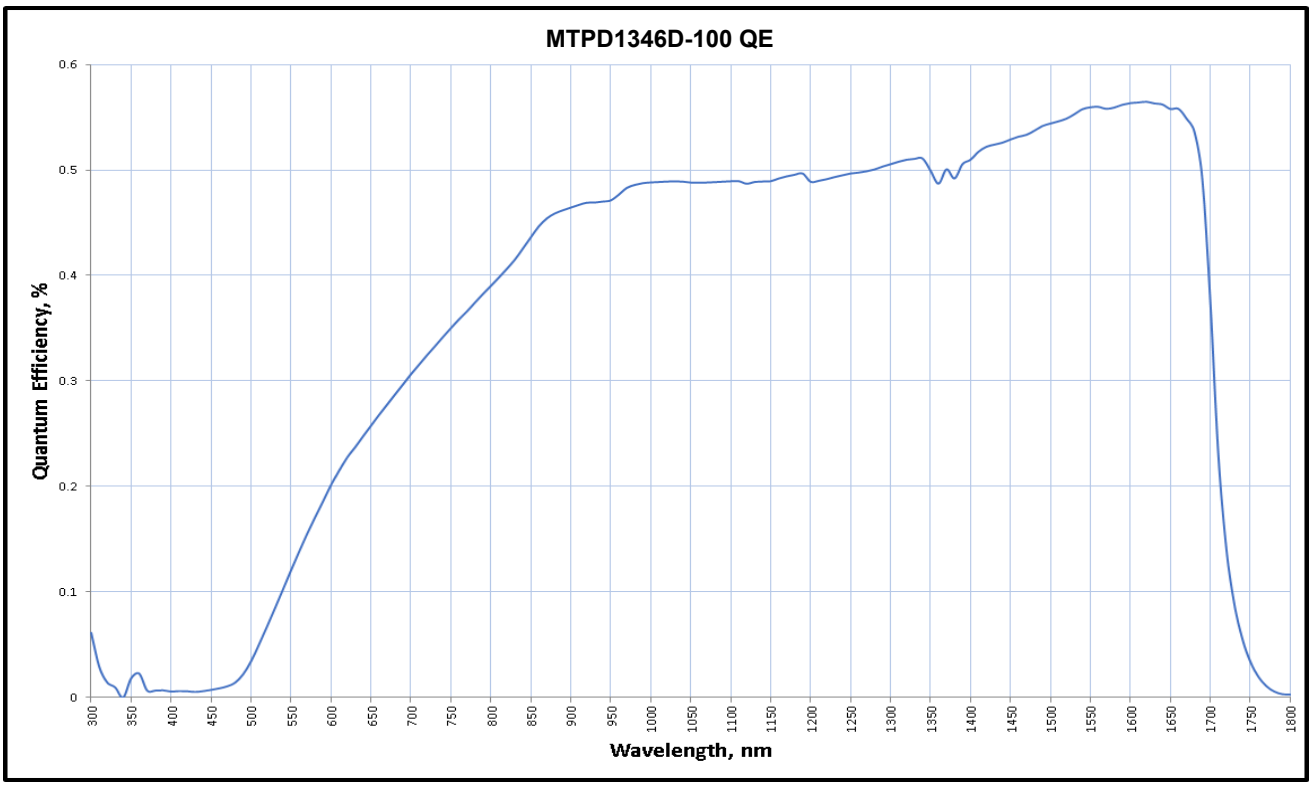
BOTTOM VIEW

①Case ②Cathode ③Anode

The information contained herein is subject to change without notice.

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Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Marktech Optoelectronics:

MTE4600P-C MTE8600N2 MTPS3085WC1 MTD6000PT-T MTE6114C2 MTE8008N3 MTPD3001D5-030 MTRS7010C MT5470E-OR MTD3910G-F3 MTPD1346D-010 MTRS0012C MTSM5416SMR2S MTAPD-06-001 MT2118-G-A MTE325H21-UV MTE8800W MTPS3085SMR1-IR MTAPD-06-009 MTE7063NK2-UR MTE8560P-C MTE8800N1 MTE1300N MTE340F11-UV MTE4110C5 MTD3910W MTE340F13-UV MTE4110D4 MTE8600MC MTSM6414SMR2S