

Sensitivity Wavelength Range: 600nm ~ 1750nm

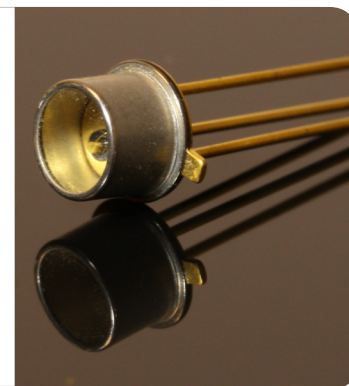
The 1346 series from Marktech, a high sensitivity and high reliability product series, is ideally suited for Optical Communication devices. Custom packaging options for this die are also available.

FEATURES

- > High Speed Response (Max: 1Gbps)
- > TO-46 Metal Can Package
- > Active Area of 0.5mm / High Sensitivity
- > Spectral Range 600nm -- 1750nm

APPLICATIONS

- > High Speed Optical Communications
- > Optical LAN
- > Optical Switches
- > Ethernet Fiber Channel

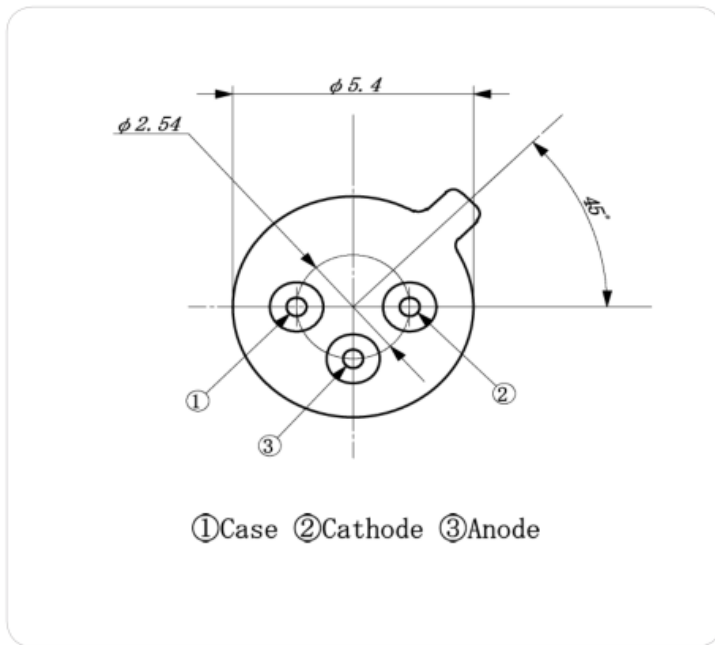
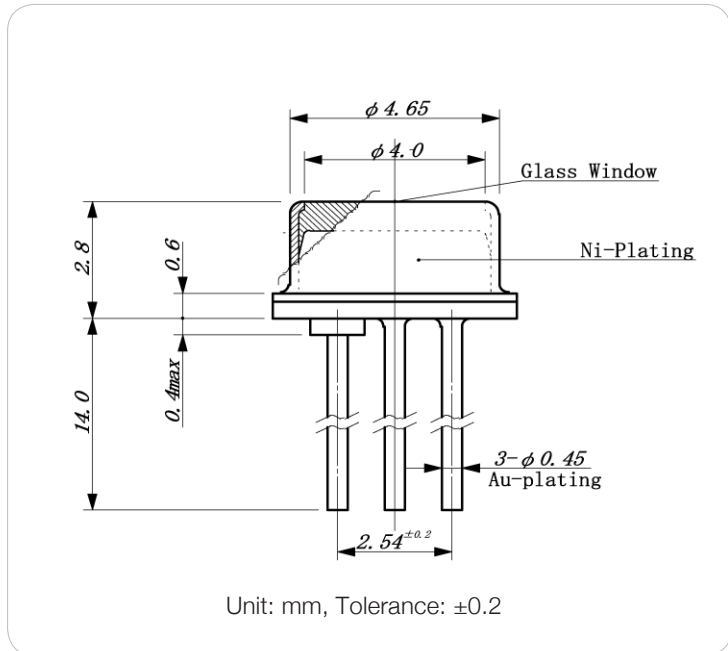


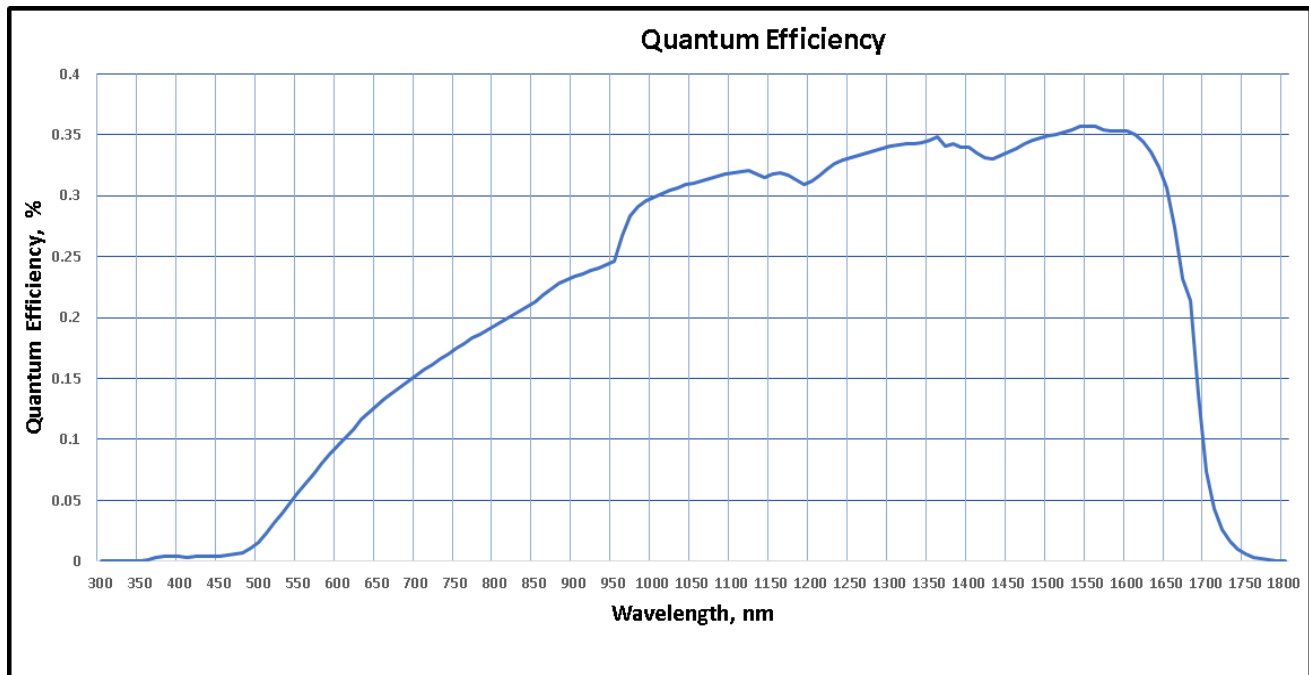
Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Active Area	Φ	0.5	mm
Operating Temperature Range	Topr	-40 ~ +85	°C
Storage Temperature Range	Tstg	-40 ~ +125	°C

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage	VR	IR=10μA	--	--	1.0	V
Sensitivity Range	λ	VR=0V	600	--	1750	nm
Dark Current	ID	VR=1V	--	--	1.0	μA
Junction Capacitance	CJ	VR=0V	--	23	--	pF
Junction Capacitance	CJ	VR=1V	--	17	--	pF
Light Current @ λ=1300nm	IL	IF=10mA	--	3	--	uA
Light Current @ λ=1300nm	IL	IF=20mA	--	5	--	uA
Responsivity	R	λ=1600nm	--	0.46	--	A/W
Quantum Efficiency	QE	λ=1600nm	35	--	--	%
Shunt Resistance	RSH	VR=10mV	--	8.8	--	MΩ
Switching Times	TR, TF	VR=2V	--	0.3	--	ns





The information contained herein is subject to change without notice.

2024-12-03