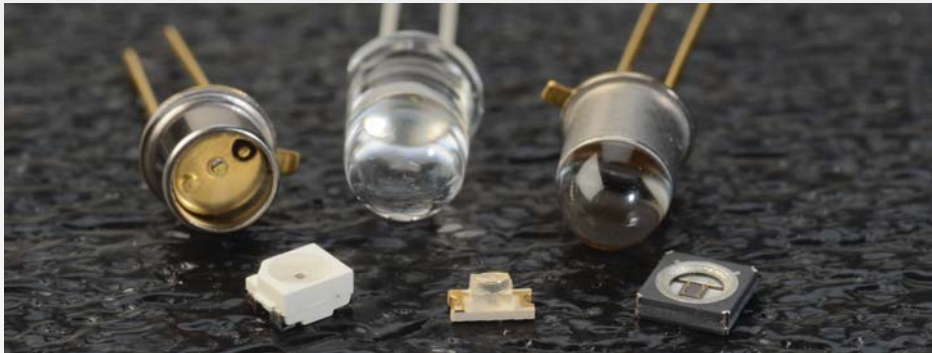


SWIR Wavelengths

Emitters: 1000nm to 3000nm

Photodiodes: 800nm to 2600nm



Marktech is one of a few limited manufacturers who supply emitters in the extended wavelength or SWIR (Short Wavelength Infrared) range. Our standard product offering includes both through-hole and surface mount packages with wavelengths from 1050nm to 1720nm and operating currents ranging from 20mA to 350mA for high power applications. Higher wavelength ranges up to 3000nm are available in specific package types. If something above 3000nm is required which is more in the MWIR (Mid Wavelength Infrared) range, Marktech is happy to work with you to develop a custom wafer / die that meets your specific application.

The SWIR wavelength range also requires specialized optical detectors as standard silicon detectors have a maximum sensitivity limit of approximately 1100nm. Marktech produces a line of InGaAs detectors that are optimized for sensing light in the SWIR wavelength range. These detectors can be obtained as an individual discrete component or combined with a silicon sensor to cover the complete spectrum of light from the visible to the SWIR range. Marktech also offers the option to produce multi element devices with emitter and detector chips in the same package.

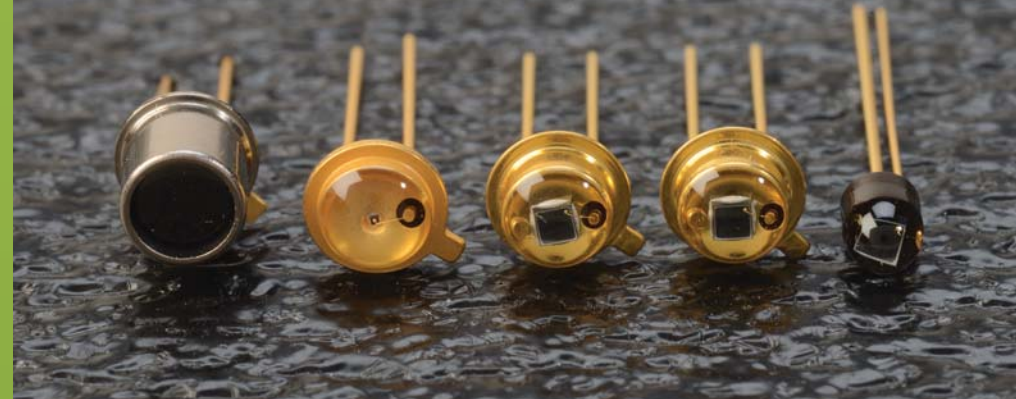


Marktech Optoelectronics
3 Northway Lane North
Latham, NY 12110

Phone (518)956-2980
Fax (518)785-4725
Email info@marktechopto.com

Visit us at www.marktechopto.com

MARKTECH SWIR EMITTERS & DETECTORS



MARKTECH SWIR EMITTERS & DETECTORS

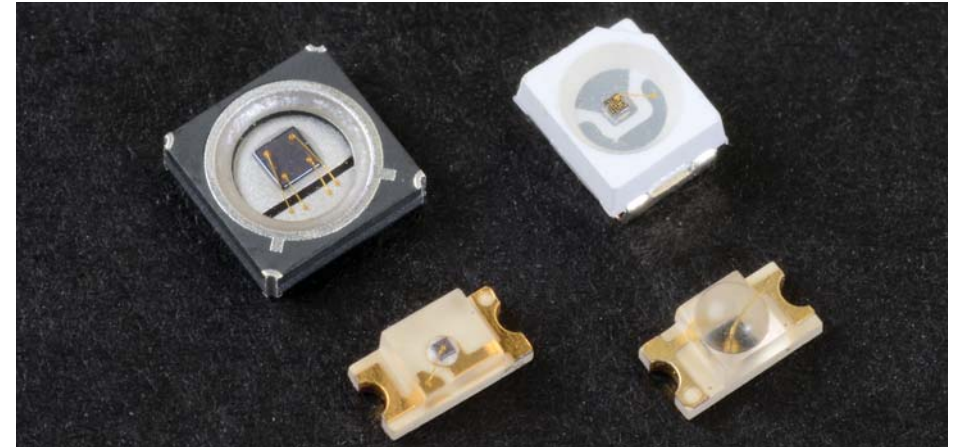
WHAT DO YOU WANT TO BUILD?

SWIR Photodetectors



Product	Wavelength (nm)	Spectral Range	Type	Package
MTPD1346D-010	1300	800-1750	InGaAsPIN Photodiode	TO-46 Metal Can Flat
MTPD1346D-030	1300	800-1750	InGaAs PIN Photodiode	TO-46 Metal Can Flat
MTPD1346D-050	1300	800-1750	InGaAs PIN Photodiode	TO-46 Metal Can Flat
MTPD1346D-080	1300	800-1750	InGaAs PIN Photodiode	TO-46 Metal Can Flat
MTPD1346D-100	1300	800-1750	InGaAs PIN Photodiode	TO-46 Metal Can Flat
MTPD1346D-150	1300	800-1750	InGaAs PIN Photodiode	TO-46 Metal Can Flat
MTPD1346D-200	1300	800-1750	InGaAs PIN Photodiode	TO-46 Metal Can Flat
MTPD1346D-300	1300	800-1750	InGaAs PIN Photodiode	TO-46 Metal Can Flat
MTPD2246-100	1950	900 - 2100	InGaAs PIN Photodiode	TO-46 Metal Can Flat - 2 pin
MTPD2646-100	2300	900 - 2600	InGaAsPIN Photodiode	TO-46 Metal Can Flat - 2 pin

SWIR Emitters



Product	Wavelength (nm)	VA	Power Output typ (mw)	Forward 3 Voltage(typ v)	Conditions If=	Bandwidth	Description
MTSM2010-496-IR	1020	150	17	1.2	350	40	SMD - Flat Top
MTE5010-095-IR	1050	45	2	1.2	50	50	TO-46 Metal Can Flat
MTE5010-995-IR	1050	90	7.5	1.2	50	80	SMD Flat Top
MTE0012-095-IR	1200	45	7	1	100	70	TO-46 Metal Can Domed
MTE1300W	1300	50	3.8	0.8	50	85	TO-46 Metal Can Flat
MT51300-IR	1300	25	38	0.95	100	70	5mm Plastic Round
MTE5014-015-IR	1450	6	1.5	0.8	20	150	TO-46 Metal Can Domed
MTE5016-095-IR	1650	90	1.5	0.7	20	100	TO-46 Metal Can Flat
MTE2017-095-IR	1720	90	1	0.7	20	130	TO-46 Metal Can Flat
MTE2017-015-IR	1720	6	4	0.9	100	130	TO-46 Metal Can Domed

Available online at



See the full list at: www.marktechopto.com