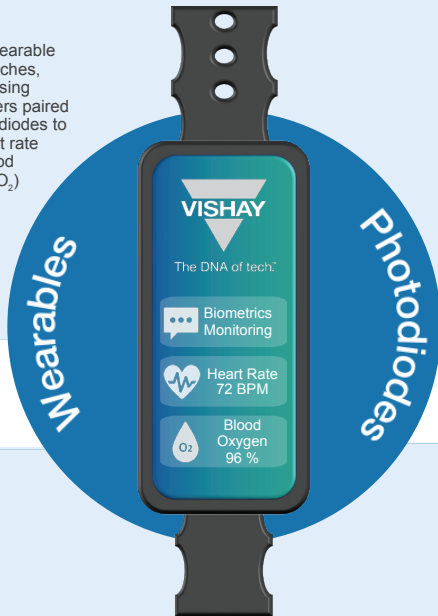


BIOMETRICS MONITORING

Heart Rate and Blood Oxygen

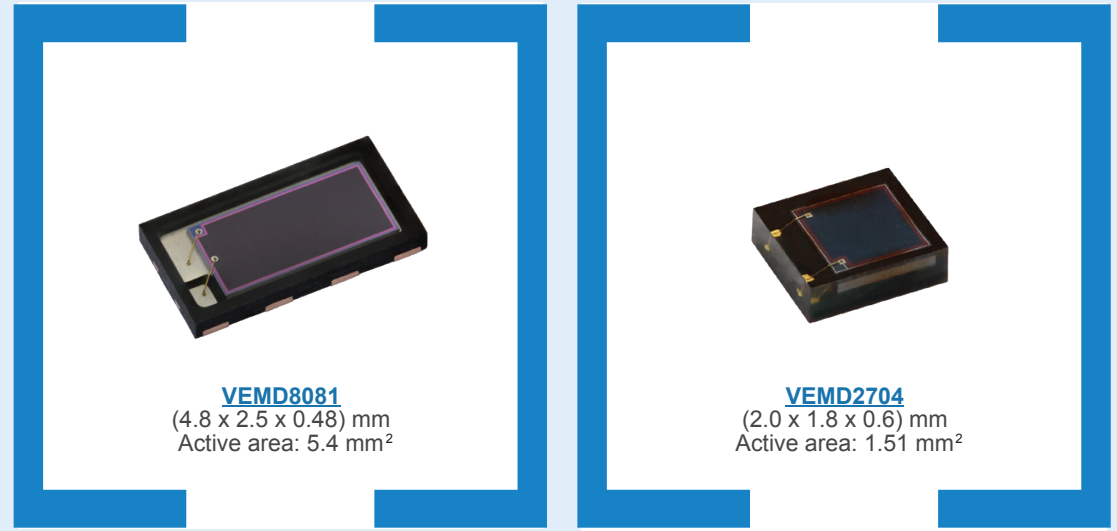
USING HIGHLY SENSITIVE PHOTODIODES

Biometrics monitoring in wearable devices such as smart watches, rings or headphones are using different wavelength emitters paired with highly sensitive photodiodes to complete the tasks of heart rate monitoring (HRM) and blood oxygen measurement (SpO₂).



Heart Rate Monitoring
Key wavelength: Green light - 530 nm

Blood Oxygen Measurement
Key wavelength: Red light - 660 nm
Infrared light - 940 nm



VEMD8081
(4.8 x 2.5 x 0.48) mm
Active area: 5.4 mm²

VEMD2704
(2.0 x 1.8 x 0.6) mm
Active area: 1.51 mm²

