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Silicon Carbide (SiC) Performance –Temperature & Power

TEMPERATURE

What effect does temperature have on performance?

IFW measured a Tk of <-0.06%/K for peak response at 270nm. This value varies a little from lot to lot of SiC-wafer. Tk is wavelength depended too. It will be higher at higher wavelength. If the maximum power output (maximum of power at 300 ... 350nm) is in the longer wavelength range Tk will become higher (estimate - 0.1%/K). The response decreases with an increase in temperature and increases with a decrease in temperature.

POWER

Is there any data on the change in responsivity for different UV power levels? How linear is the response as the UV power levels go up?

- a. There is no change in responsivity over 5000 hours at power levels below 1000W/m2
- b. Response is linear up to 1000W7m2

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