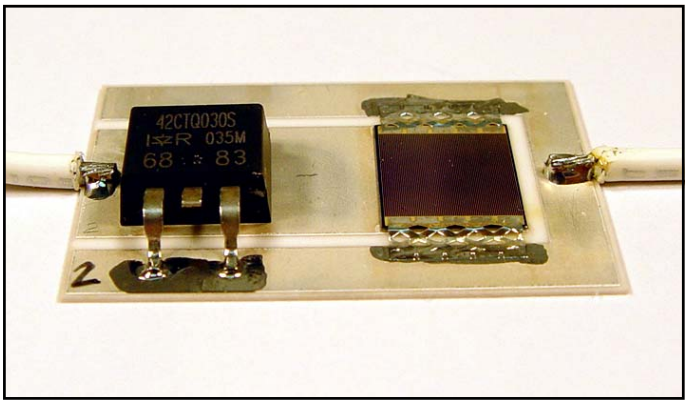
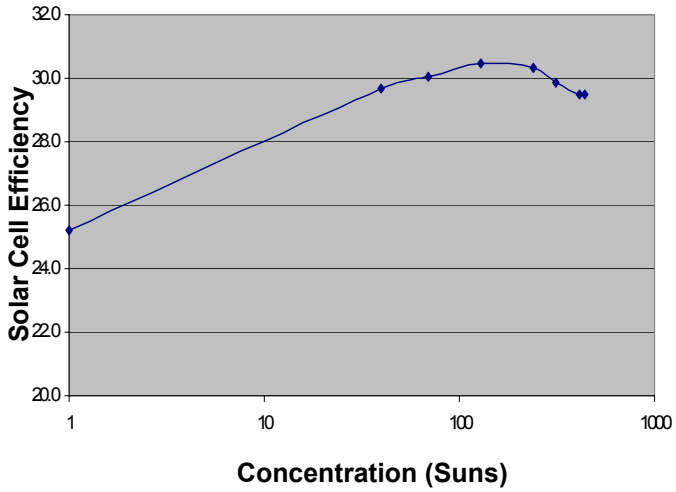
Concentrator Solar Cell on Submount

Product Description

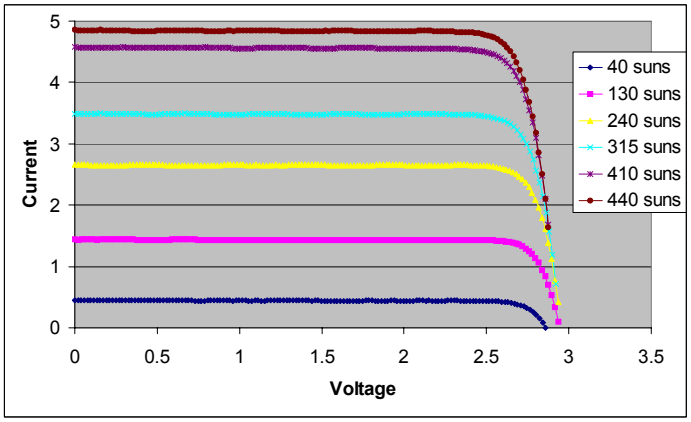
- Concentrator cell assemblies can be used with reflective or refractive optics.
- Current concentrator cell assemblies use Improved Triple-Junction (ITJ) cells that achieved world-record conversion efficiency of 35.2% under concentration at 25ºC.
- Next generation cells with efficiencies of about 36% will be offered in the 4th quarter of 2004.
- Bypass diodes are used to protect the solar cells from reverse bias during partial shadowing.
- Cell can be 1.0cm x 1.0cm active area, with dual busbars. 1.5cm x 1.5cm active area solar cells are also available. These cells are designed to handle up to 500 sun concentration. Other sizes and configurations for higher concentrations can be custom designed and manufactured.
- Concentrator cell assemblies using the 1.0cm x 1.0cm (or 1.5cm x 1.5cm) cells can be available in about 2 weeks after acceptance of order. For custom designs, delivery is 8-12 weeks.



Efficiency Vs. Concentration For A Single Cell Mounted on A Ceramic Substrate



Outdoor Test Data for Several 1cm x 1cm Solar Cells on Ceramic Submounts.



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