

N型双面单晶电池片 Monocrystalline Bifacial TOPCon Cell

N-TOPCon-182-16BB

◆ 产品特性

Product Characteristics

- 高转化效率，高可靠性
High conversion efficiency with high reliability
- 无光致衰减
No light-induced degradation
- 工艺稳定，电性能均匀
Stable manufacturing process, uniform electrical performance
- 高双面发电率
High bifaciality guarantees more electricity generation
- 组件封装过程中电池的电性能失配度低
Low mismatch of cell performance during encapsulation
- 弱光条件下优异的发电特性
Excellent power generation performance under low irradiation
- 较弱的热斑效应
Low hot spot effect

◆ 品质管控

Quality Control

- 严格的来料，出库，包装检测
Strict incoming, outgoing, and packaging inspections
- 效率测试的准确性控制在 $\pm 0.1\%$
Efficiency tested within $\pm 0.1\%$ accuracy
- 反向漏电和电池外观100%全检
Checked for reverse current and visual appearance
- 校准片溯源到弗劳恩霍夫
Reference cell calibrated from Fraunhofer

◆ 产品特征

Product Features

尺寸规格 Dimension:

182mmx182mm ± 0.5 mm, $\Phi 247.28$ mm ± 0.5 mm

电池厚度 Cell Thickness:

130 μ m $\pm 13\mu$ m

正面 (+) Front side:

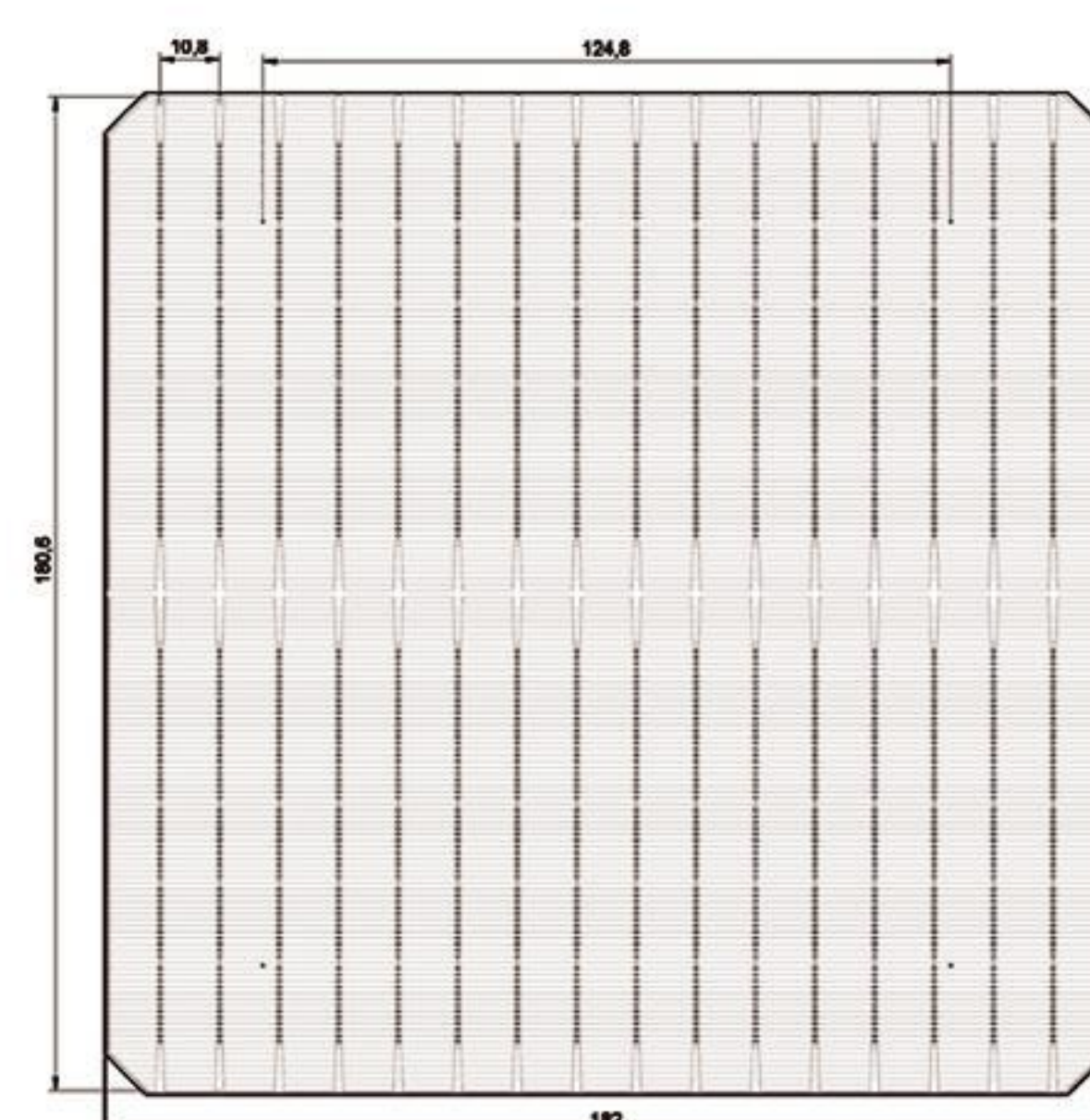
16BB, 氮化硅减反射膜 Silicon nitride antireflection coating

背面 (-) Back side:

16BB, 氮化硅减反射膜 Silicon nitride antireflection coating



正面图形



背面图形

N-TOPCon-182-16BB

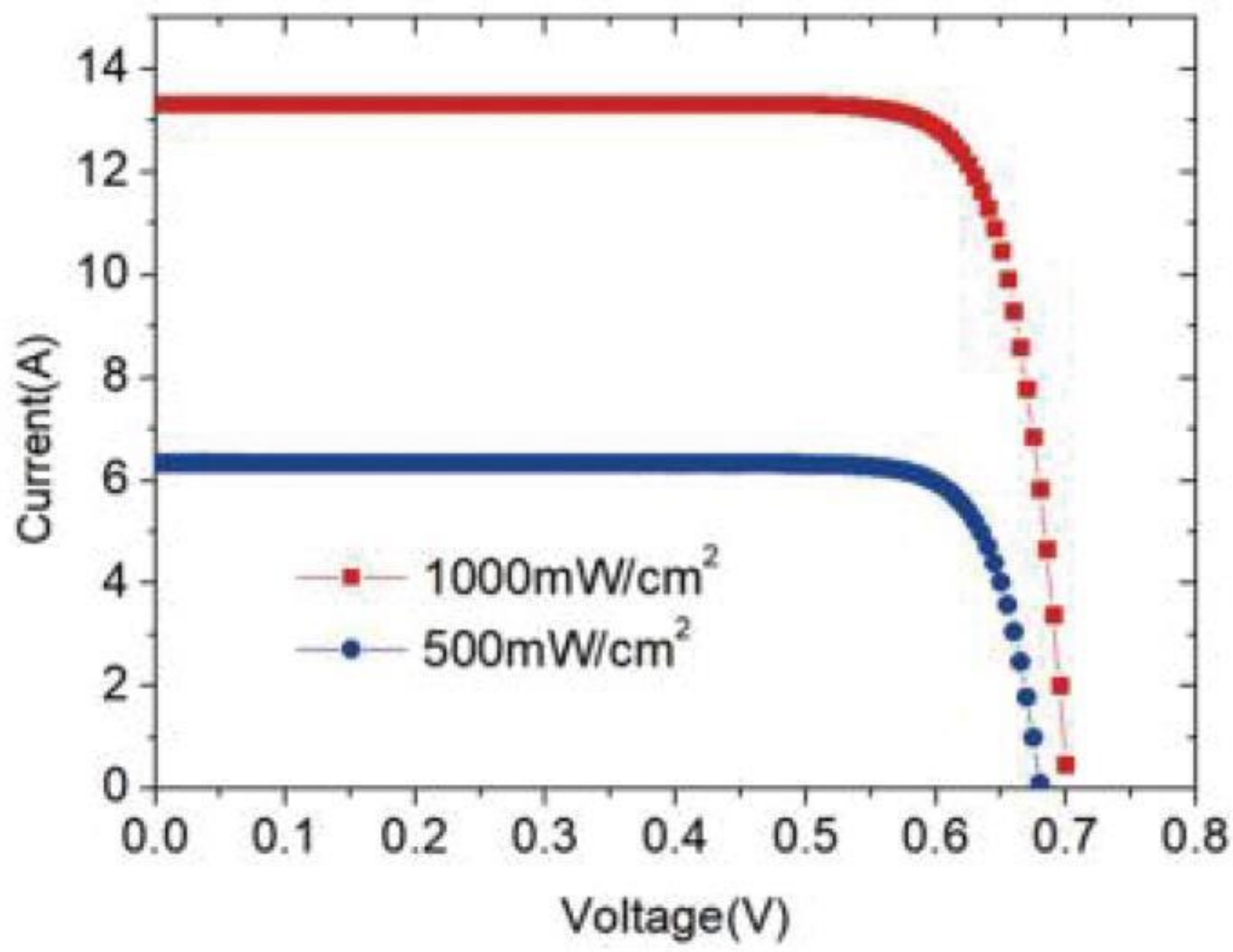
电性能特征 Electric Performance

MODEL(%)	Power Pmpp(W)	Max.Power Current Impp((A)	Short Circuit Current Isc(A)	Max.Power Voltage Vmpp(V)	Open Circuit Voltage Voc(V)
> 25.5	8.42	13.651	14.218	0.6168	0.7178
25.4~25.5	8.38	13.606	14.183	0.6159	0.7169
25.3~25.4	8.35	13.577	14.148	0.615	0.716
25.2~25.3	8.32	13.553	14.113	0.6141	0.7151
25.1~25.2	8.29	13.518	14.078	0.6131	0.7141
25.0 25.1	8.25	13.475	14.035	0.6122	0.7132
24.9~25.0	8.22	13.440	14	0.6114	0.7124
24.8~24.9	8.19	13.405	13.965	0.6106	0.7116
24.7~24.8	8.16	13.370	13.93	0.6097	0.7107
24.6~24.7	8.12	13.335	13.895	0.6089	0.7099
24.5~24.6	8.09	13.300	13.86	0.6081	0.7091
24.4~24.5	8.06	13.265	13.825	0.6073	0.7083
24.3~24.4	8.02	13.230	13.79	0.6065	0.7075
24.2~24.3	7.99	13.195	13.755	0.6059	0.7069
24.1~24.2	7.96	13.155	13.715	0.6054	0.7064
24.0~24.1	7.92	13.115	13.675	0.604	0.705
23.9~24.0	7.89	13.080	13.64	0.6032	0.7042
23.8~23.9	7.86	13.055	13.615	0.6024	0.7034
23.7~23.8	7.82	13.006	13.581	0.6016	0.7023
23.6~23.7	7.79	12.968	13.543	0.6008	0.7012
23.5~23.6	7.76	12.931	13.501	0.6000	0.7004
23.4~23.5	7.73	12.893	13.478	0.5992	0.6987
23.3~23.4	7.69	12.855	13.432	0.5984	0.698
23.2~23.3	7.66	12.817	13.3919	0.5976	0.6971
23.1~23.2	7.63	12.779	13.347	0.5968	0.6964
23.0~23.1	7.59	12.740	13.303	0.5960	0.6957
22.9~23.0	7.56	12.702	13.26	0.5952	0.695
22.8~22.9	7.53	12.664	13.2178	0.5944	0.6942

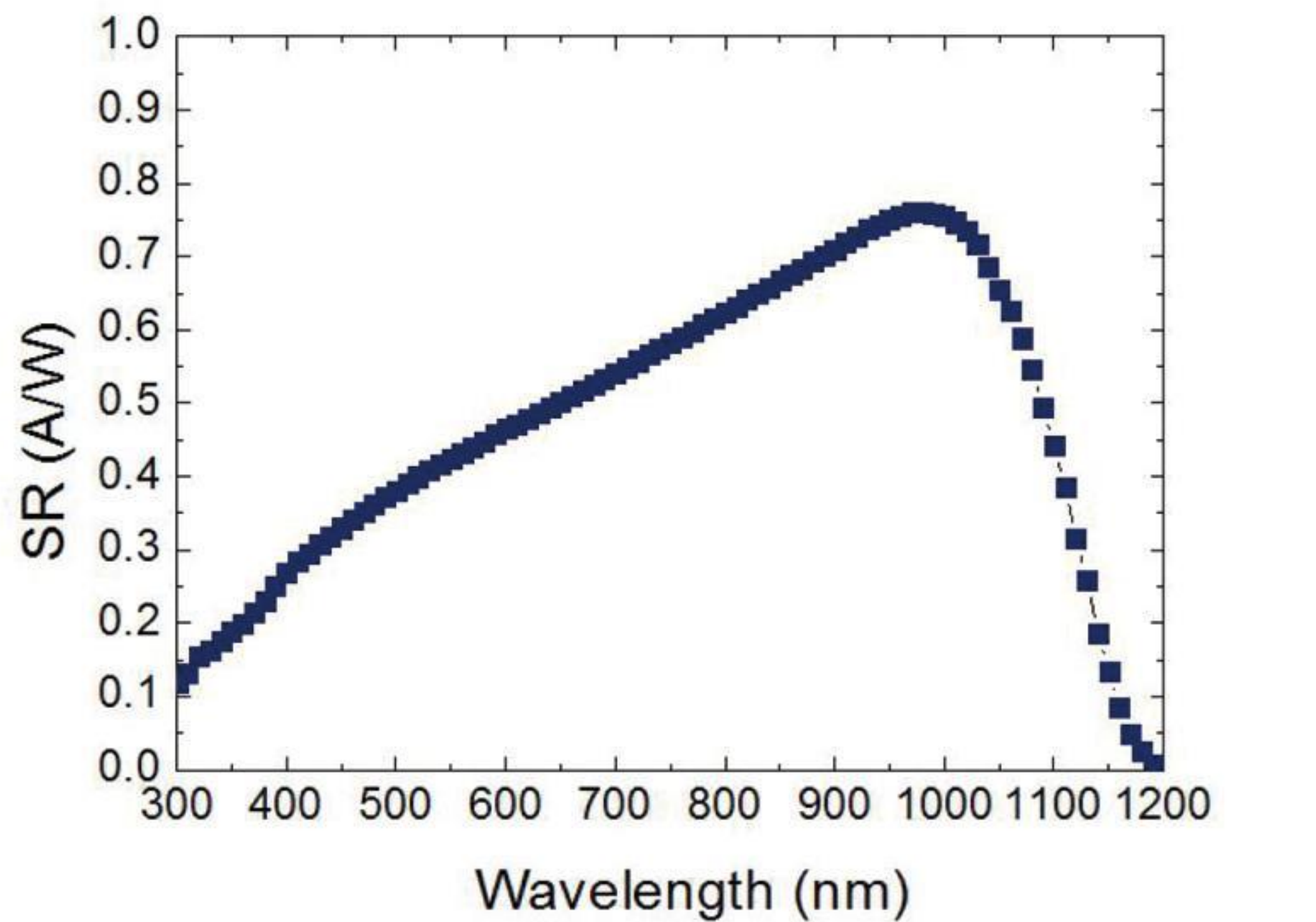
温度系数 Temperature Coefficients

电流温度系数 Current Temperature Coefficient	TkCurrent: +0.046%/K
电压温度系数 Voltage Temperature Coefficient	TkVoltage: -0.26%/K
功率温度系数 Power Temperature Coefficient	TkPower: -0.30%/K

IV曲线 IV Curve



光谱响应 Spectral Response (SR)



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