

## IR-Si272 Emitter Datasheet

The IR-Si series emitters are designed to supply higher temperatures and greater output compared to other IR sources. The patented silicon nitride or silicon carbide material ensures a robust design.

### Recommended Operating Parameters

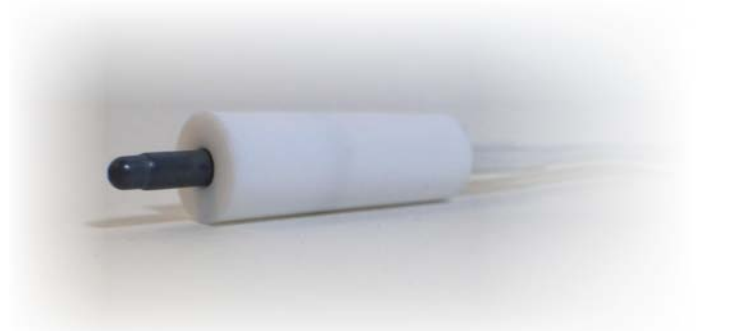
Voltage, V	6
Temperature °C	1160
Current, A	5.0
Power, W	30.0

### Properties at Recommended Parameters

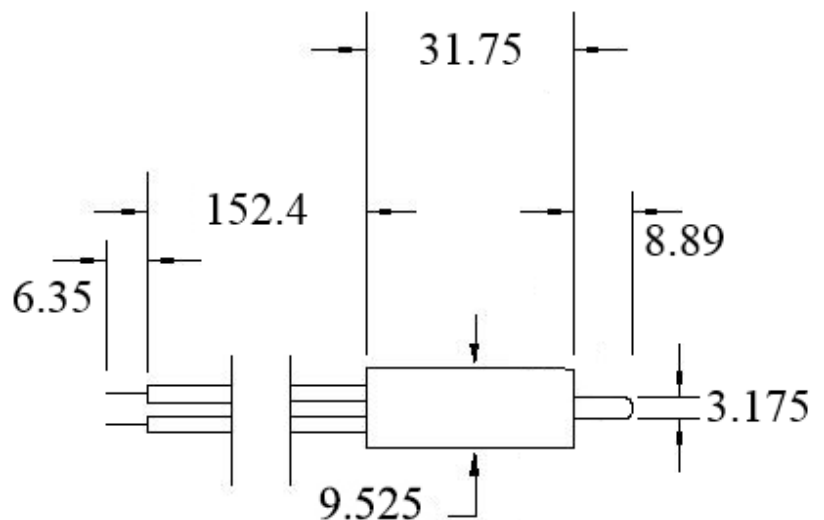
Life	5000+ Hours
Emissivity, %	80
Active Area (mm)	2.8(D) X 5(L)
Material	Silicon Nitride

IR-Si series emitters can be paired with elliptical or parabolic reflectors for a significantly more efficient collimation of energy. Windows are also available for specific transmitting ranges.

Contact Information:  
Boston Electronics  
[www.boselec.com](http://www.boselec.com)  
[shop.boselec.com](http://shop.boselec.com)  
[boselec@boselec.com](mailto:boselec@boselec.com)  
+1.617.566.3821



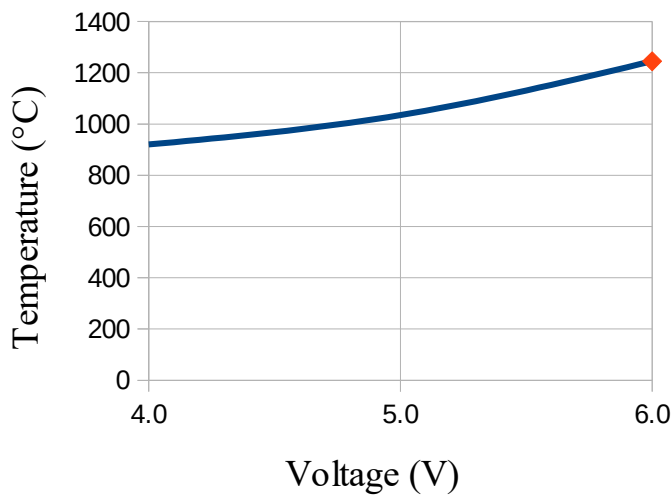
Note: all dimensions in mm



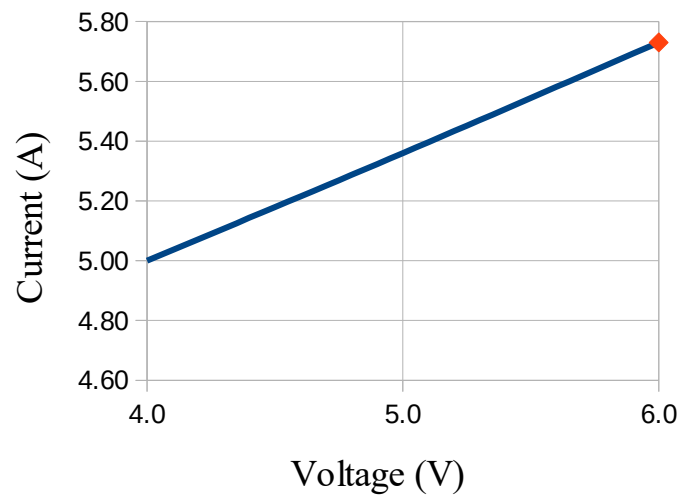
# Sample Data Points

V	4.00	5.00	6.00
A	5.00	5.36	5.73
W	20.00	26.80	34.38
°C	920	1035	1245

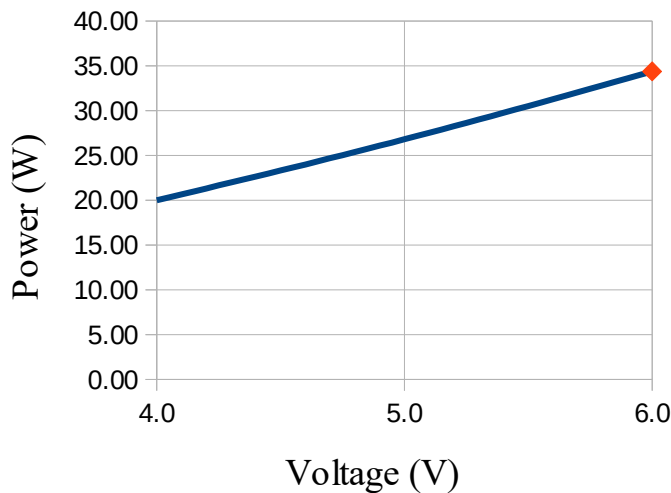
### Temperature vs. Voltage



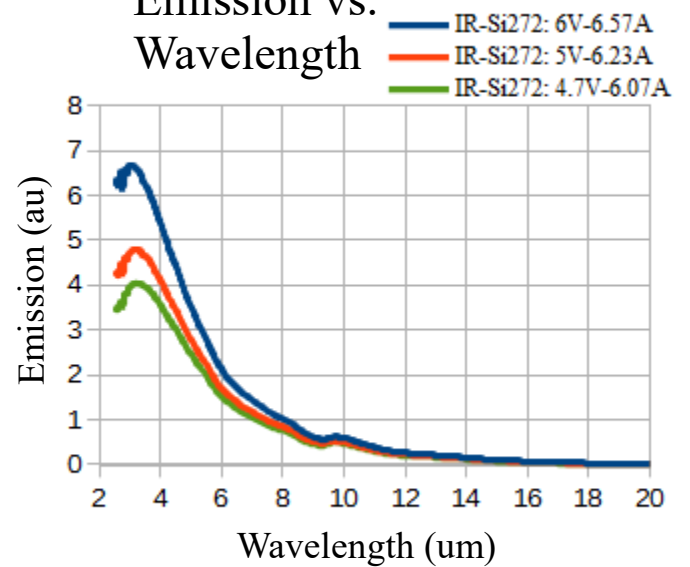
### Current vs. Voltage



### Power vs. Voltage



### Emission vs. Wavelength



◆: Nearing Maximum Operating Parameters