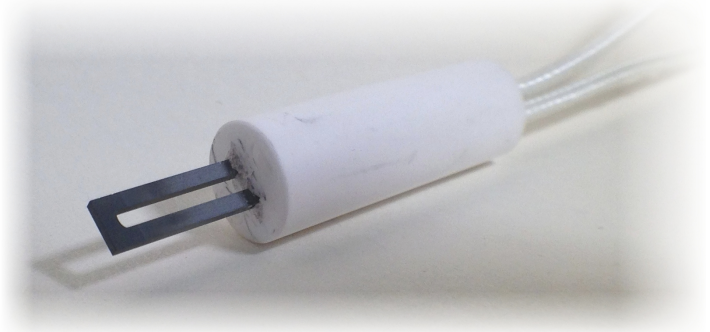


IR-Si207 Emitter Datasheet

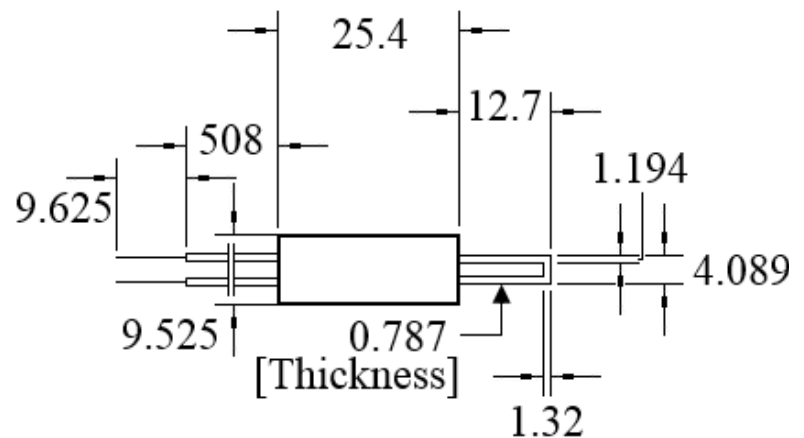
The IR-Si series emitters are designed to supply higher temperatures and greater output compared to other IR sources. The patented silicon nitride or silicon carbide material ensures a robust design.



Recommended (Maximum) Operating Parameters

Voltage, V	12 (14)
Temperature °C	1260 (1455)
Current, A	1.6 (1.87)
Power, W	19.2 (26.18)

Note: All dimensions in mm



Properties at Recommended Parameters

Life	5,000+ Hours
Emissivity, %	80
Active Area (mm)	3 (L) X 4.4 (W)
Material	Silicon Carbide



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

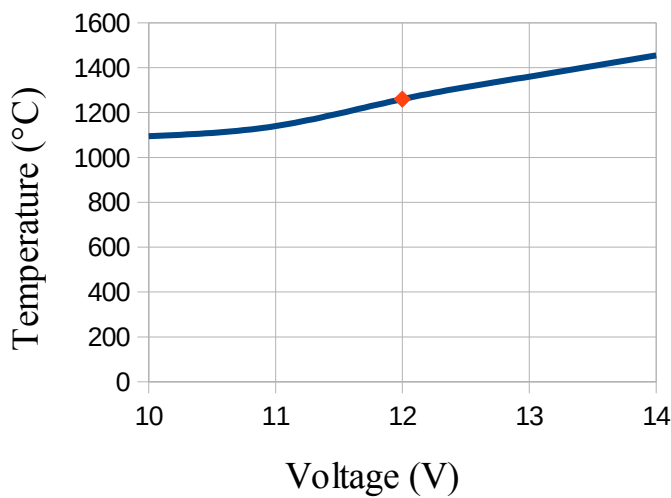
Contact Information:

Boston Electronics
www.boselec.com
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boselec@boselec.com
+1.617.566.3821

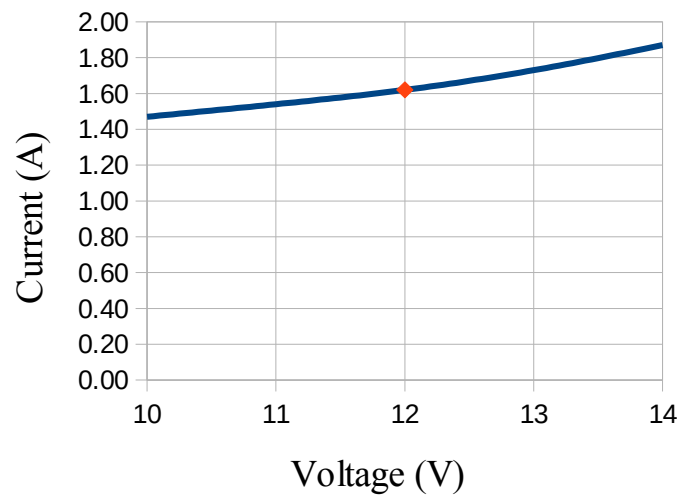
Sample Data Points

V	10.00	11.00	12.00	13.00	14.00
A	1.47	1.54	1.62	1.73	1.87
W	14.70	16.94	19.44	22.49	26.18
°C	1095	1140	1260	1360	1455

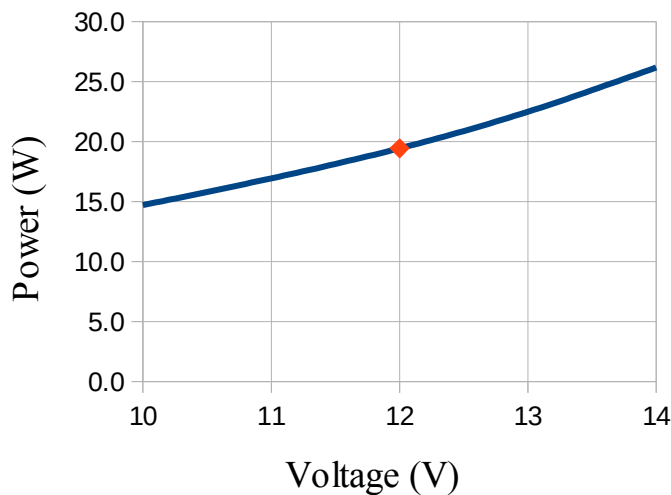
Temperature vs. Voltage



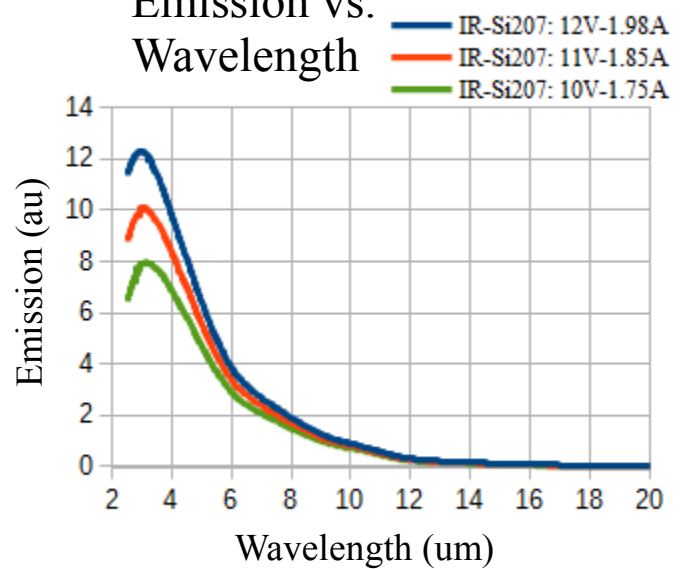
Current vs. Voltage



Power vs. Voltage



Emission vs. Wavelength



◆: Nearing Maximum Operating Parameters