



HawkEye Technologies, LLC  
Your **Source** for **Infrared**

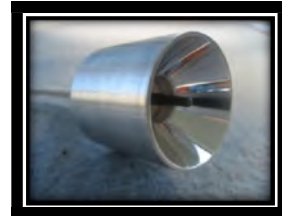
[www.hawkeyetechnologies.com](http://www.hawkeyetechnologies.com)



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[www.boselec.com](http://www.boselec.com) [irsource@boselec.com](mailto:irsource@boselec.com),  
(617)566-3821

## Infrared Sources IR-Si253-P-1 or -E-1 (formerly IR-18/19)

- Silicon Nitride Emitter mounted in a Parabolic or Elliptical Reflector
- Robust and Efficient
- 1150°C High Output Design



IR-18



IR-19

The IR-Si253 Series is designed for those customers who require higher temperatures and greater output from their infrared source. These emitters are manufactured using a patented silicon nitride material. The advanced ceramic technology ensures a very stable product. Their robust design ensures intrinsic physical and thermal strength. When operated at 12 volts/18 watts the IR-Si253 reaches 1150°C.

The IR-Si253-P-1 emitters are mounted in a 1 inch parabolic reflector for extremely efficient collimation of energy. The IR-Si253-E-1 emitters are mounted in a 1 inch elliptical reflector with an external focal point that is 1/2 inch in front of the clear aperture.

### Typical Operating Parameters

	IR-Si253
Voltage	12.0 Volts (AC or DC)
Temp	1150° C
Current	1.5 Amperes
Power	18.0 watts
Emissivity	0.75
Radiating Area	1.5 mm dia. x 4.1 mm length
Lifetime	5000+ hours at 12 Volts



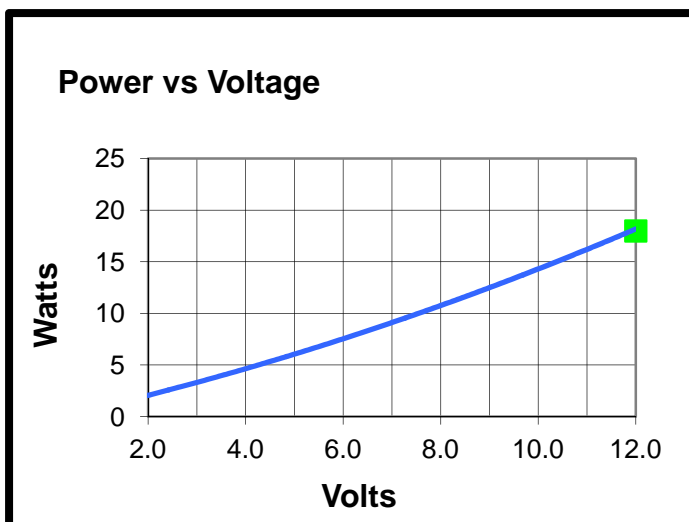
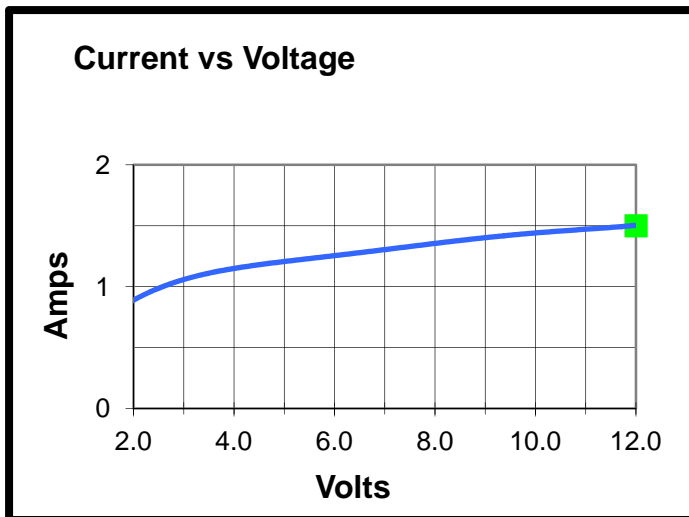
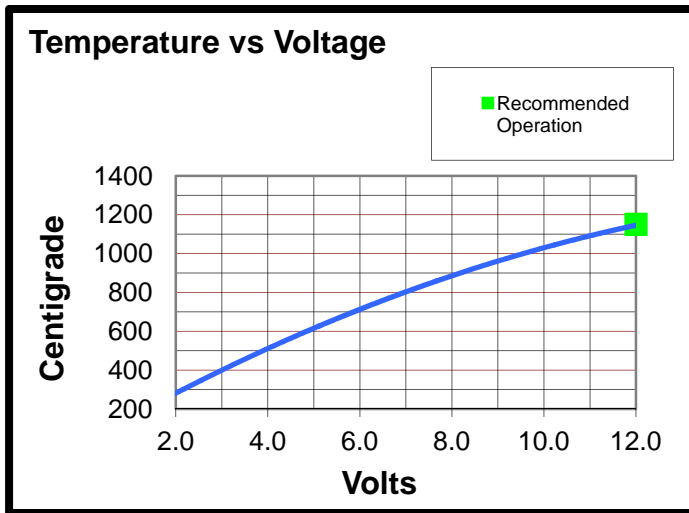
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## HawkEye IR-Si253 Engineering Data Charts



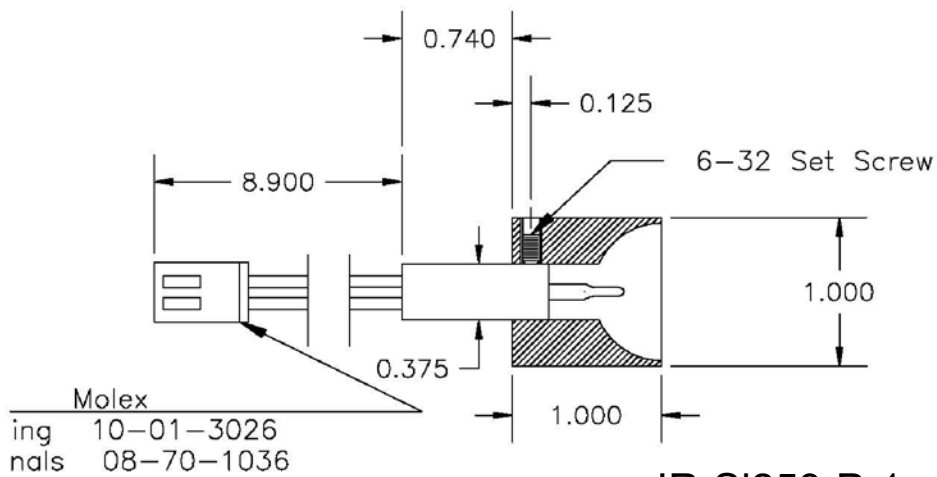


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IR-Si253-P-1 was  
IR-18 Emitter

Note: all dimensions in inches