

Re: Not so much electronics, more electrics

Source: <http://sci.tech--archive.net/Archive/sci.electronics.repair/2007-11/msg00750.html>

- *From:* Sam Goldwasser <sam@xxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* 17 Nov 2007 19:15:00 -0500
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clifto <clifto@xxxxxxxx> writes:

Sam Goldwasser wrote:

While the scenario of the bits of the filament shorting is possible with some lamps (usually with long thin filaments, though unlikely with the short filaments of halogen lamps), the more likely cause is the arc resulting when the filament opens. This results in the arc moving towards the filament supports, with a lower resistance than the filament had originally, leading to a high current.

What I never figured out is how the arc is maintained for more than 1/120 of a second when there's no air around the arc to ionize.

There's an inert gas.

Only the smallest incandescent lamps have a vacuum inside.

--- sam | Sci.Electronics.Repair FAQ: <http://www.repairfaq.org/>
Repair | Main Table of Contents: <http://www.repairfaq.org/REPAIR/>
+Lasers | Sam's Laser FAQ: <http://www.repairfaq.org/sam/lasersam.htm>
| Mirror Sites: http://www.repairfaq.org/REPAIR/F_mirror.html

Important: Anything sent to the email address in the message header above is ignored unless my full name AND either lasers or electronics is included in the subject line. Or, you can contact me via the Feedback Form in the FAQs.

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