Voltage Multipliers, Inc.
High Voltage Innovation
1.559.651.1402

Watt's Happening Newsletter

Issue 40 *Fall 2009*

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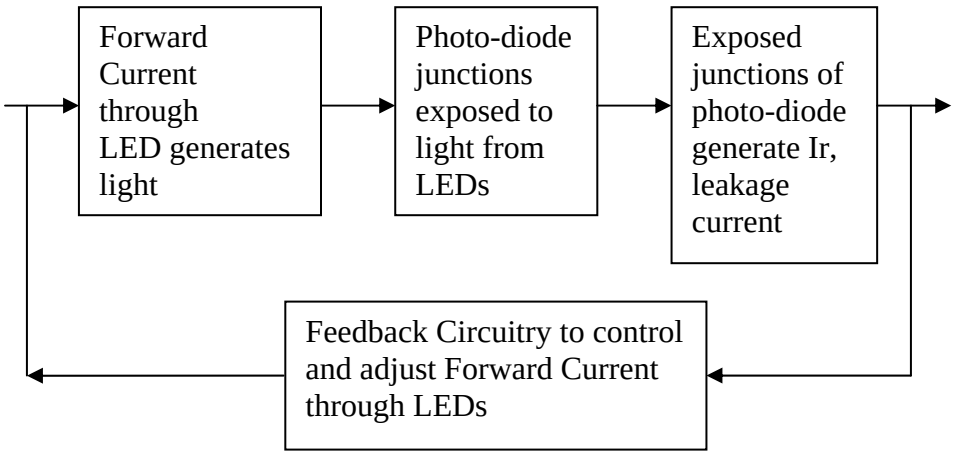
Featured Product – OZ100SG

The new, 10kV opto-diode, OZ100SG, represents a new approach to high voltage opto-couplers.

Expose the OZ100SG junctions to light via an external light source, and voilà! You have yourself a custom, high voltage opto-coupler.

Manufactured using the latest techniques, the multi-junction device is encapsulated in an optically clear material so that when the photodiode is reversed bias and the junctions are exposed to light (such as that provided by Light Emitting Diodes (LEDs)), leakage current is created.

Leakage current, Ir, can be monitored, and since it is linear over a certain range, it can be used as a feedback mechanism. Light emitted from an LED is proportional to the forward current through it. So forward current through the LED can be used to increase or decrease leakage current in the photodiode. Thus, the feedback loop is closed. A simplified diagram illustrates this system below.



The OZ100SG features

- 10kVrwm
- 500mA If
- 1µ Ir @ 25°C and 25µA Ir @ 100°C
- Operating Temperature: -65°C to +175°C
- Storage Temperature: -65°C to +200°C

Contact Sales or Engineering for more information.

www.VoltageMultipliers.com
559.651.1402

Quality Circle

I have a hobby. I have the world's largest collection of sea shells. I keep it scattered on beaches all over the world. Maybe you've seen some of it. --- *Steven Wright*

VMI recently and successfully completed the ISO9001:2008 certification for our Quality Management System, the scope of which included, "…the design and development, production and test of commercial and military rectifiers and diodes, custom rectifiers, multipliers and power supplies produced in axial leaded, surface mount and module/assembly packages".

VMI's new certification is valid through October, 2011.

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I'd rather be a failure at something I enjoy than a success at something I hate. --- *George Burns*

Congratulations to the following graduates. Certification is valid for two years.

IPC-A-610D
Application Specialist
Certification Date: 04-20-2009
Blanca Nava
Sandra Rodriguez
Hazel Snyder

Certification Date: 04-28-2009
Laura Leal
Lita Sapad
Christine Spiker

Certification Date: 06-02-2009
Lita Domingcil
Lourdes Rodriguez

Education is when you read the fine print. Experience is what you get if you don't.

--- Pete Seeger

"Hope costs nothing."
---Colette

Certification Date: 07-28-2009
Sharon Aldridge
Sonia Kyle

J-STD-001D
Application Specialist
Certification Date: 03-24-2009
Beverly Franco
Luana Thomason
Cindy Vega

Certification Date: 05-18-2009
Donna Griffith
Laura Leal
Blanca Nava
Sandra Rodriguez
Lisa Romero

Certification Date: 08-04-2009
Sharon Aldridge
Sonia Kyle

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Employee Profile – Roger Miller
Employee #0456

Roger was hired in February, 2007. When he first started, he mostly did solder dipping. His current job title is "Overnight Production". He is responsible for running the Disco saws, dicing, solder dipping, tape-and-reel, lead-forming, stacking, and inline diffusion. His main duties include anything that needs to be done to keep production running overnight.

Roger has been here over two years. He has extensive cross-training in just about all areas of diode production including the above mentioned dicing, solder dipping, tape-and-reel, lead forming, stacking, and inline diffusion.

He enjoys every aspect of his job.

Roger was born in Lake Tahoe, CA. He grew up in California, and Reno, NV. He attended several high schools and Feather River College. He will graduate from College of the Sequoias this fall.

Roger is single. His favorite past times include sports, playing video games, staying active, and Rock music. Roger isn't involved with any organizations at the time, but enjoys having fun with most things.

One of his earliest memories of working at VMI include, "…when I first started, everyone kinda looked at me funny because of my long, jet-black hair. It's short now, so there are no more weird looks."

"You know what real power is? Real power is when you are doing exactly what you are supposed to be doing; the best it can be done. Authentic power. There's a surge, there's a kind of energy field that says, "I'm in my groove". And nobody has to tell you, "You go, girl," because you know you're already gone. Oprah Winfrey
--- Oprah Winfrey

I've been absolutely terrified every moment of my life - and I've never let it keep me from doing a single thing I wanted to do. ---*Georgia O'Keefe*

Five years from now Roger sees himself, "Done with school and helping children like me. I was a foster kid, so I can really relate to those kinds of situations. I've had over twenty foster parents and was in the system since I was 4 years old".

If Roger were in charge, he would "…do my best to do as good a job as our current supervisors, a little sucking up goes a long way. ☺".

Employee Profile – Todd Cooney
Employee #0476

Todd started working at VMI a little over a year ago in the diode production area doing molding, labeling, and trim-&-form. Todd has cross trained in lead forming, solder dipping, tape-and-reel and taking out the trash (just kidding).

One aspect of his job he likes is that it can be fast paced, which makes the time go by faster. He also likes that "VMI is working with me so I can go to school".

Todd was born in Texas – at Fort Hood Army Base. He grew up in Oakland.

Todd graduated from Fire Fighting School in Chicago Ill., and Advanced Fire Fighting School in San Diego, CA.

Todd and his wife, Suzanne, have been married for eight years. They have two sons – Vincent, 13 years old, and Trevor, 5 years old.

Todd describes himself as a gym rat – "I like working out and eating healthy". His professional accomplishments include having served in the U.S. Navy for nine years.

Five years from now Todd sees himself, "Working in the Drafting Department at VMI".

If Todd were in charge, he would, "Put an exercise room at VMI, complete with tread mills, exercise bikes, weights, and a good stereo!" ☺

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High Fives

New Arrivals

Jayden Makenzie White was born May 21, 2009 at 8:15 p.m. to Anthony and Dayna White. She weighed 6 lbs. 13 oz, and was 19 1/2 inches long. Wynonna and Eric White are the proud, first time Grandparents.

Milestone Birthdays

With the help of friends, family, and co-workers, Barbara Johnson and Mike Ranieri celebrated milestone birthdays.

We'll leave the question of "which milestone" to your imagination. But let's just say they both look remarkably youthful for their age. ☺

Fish Stories

Russ Morris really wasn't telling fish stories when he described his recent fishing trip to Cabo San Lucas! ☺

Here he is holding two Dorado (a.k.a. Mahi Mahi in Hawaii, and Dolphin Fish in Florida) he caught. They both weighed about 50 lbs.

2009 Relay for Life team

For the seventeenth straight year, VMI participated in the American Cancer Society's Relay for Life. This year it was held at the College of the Sequoias. The team raised $6,721.95, including a $500 corporate contribution from VMI.

Fundraising events such as Frito Boats, tacos, and ice cream sales, garnered $2.079.18. Raffle ticket sales for items donated by employees totaled $126.05. Way to go, Team! Members included sixteen employees and six friends or family members.

Team members

- Dennis Kemp
- Clell Greene
- Jeanne Liberato
- Nancy Capp
- Brandon Capp
- Roberta Crawford
- Rachel Mendonca
- Tyler Walls
- Barbara Johnson
- Karen Spano
- Margaret Fulleylove
- Andrew Walkling
- Beverly Franco
- Javier Franco
- Jeff Paluck
- Laura Leal
- Daniel Deschenes
- Sarah Gallardo
- Todd Cooney
- Suzanne Cooney
- Rosie Oceguera
- Rhonda Neal
- Janie Martinez
- Reyna Iniguez

"Optimism is a strategy for making a better future. Because unless you believe that the future can be better, you are unlikely to step up and take responsibility for making it so. If you assume there is no hope, you guarantee there will be no hope."
--- Noam Chomsky

VMI Scholarship Awards

To qualify for a VMI Scholarship, applicants submit an essay discussing his or her college plans. What follows are several excerpts from this year's essays…

Happiness is good health and a bad memory.
---Ingrid Bergman

- "Pride, determination, and resilience are the key to what made me succeed in any way imaginable….Music is another language for me…Through hard work I have dedicated myself to music, and good things have come from it."

- "…I submitted applications to graduate programs for a Masters of Science in Food and Nutritional Science at both San Jose State University and Cal Poly San Luis Obispo….I am hopeful that I will be able to obtain a degree at either school, while simultaneously working on becoming a Registered Dietician. My long-term goal is to be able to return to my home community of Cutler-Orosi where I will be able to provide multilingual nutrition counseling services."

- "…I am also a voted Co-chair President of the CSU Fresno Mechatronics Union, which is a club that builds robots to compete in an annual event called

Robogames. My goal for the club is to successfully complete a functioning robot, and to enter it in Robogames upcoming June 2009. Overall, my main focus and goal I want to achieve, is to complete a Bachelor of Science degree in Mechanical Engineering…"

- "…I want to become a child psychologist because I want to help children with hard lives….I know college is going to be very challenging, but I know I can do it."

- "…After attending CSU Fresno for almost a year, I realized that I am even more determined to accomplish my dreams, and go even further than I had planned…I choose this specific major [Health Science] because there are more options and opportunities available once I get my degree. With this degree, I can still work as a Registered Nurse, but it is also a Pre-Med for the Physician's Assistant Program, which I plan to enter in the future."

Why does a slight tax increase cost you two hundred dollars and a substantial tax cut save you thirty cents*? --- Peg Bracken*

Congratulations to the following scholarship recipients for the 2009/2010 academic year.

Name	Parent	School attending
Shane Marie Agra	Christina Agra	UC Irvine
Steven Castaneto	Editha Castaneto	C.O.S.
Jalisa Coleman	Paula Beavers	CSU Sacramento
Emmanuel Garcia	Reyna Iniguez	C.O.S.
Erika Garcia	Valerie Garcia	C.O.S.
Sergio Gonzalez	Martha Gonzalez	C.O.S.
Nicolas Morris	Russ Morris	UC Santa Barbara
Mirela Paat	Ben Paat	C.O.S.
Manuel Parra Jr.	Manuel Parra	CSU Fresno
Vanessa Parra	Manuel Parra	Calpoly SLO
Julian Pascua Jr.	Rosalina Pascua	CSU Fresno
Autumn Purdue	Shane Purdue	UC Irvine
Elizabeth Rodriquez	Margarita Rodriquez	C.O.S.
Esai Saesee	Aiyawt Saesee	CSU Fresno
Leanne Sapad	Angelita Sapad	San Jose State University
Katelyn Warner	Debbie Warner	CSU Fresno
Tyler Walls	Rachel Mendonca	C.O.S.

Striving for excellence motivates you; striving for perfection is demoralizing. --- Harriet Braiker

PUBLICATION

Is there something you'd like to contribute to "Watt's Happening"? Graduation, promotion, birth announcement? Release dates are the first of December, March, June, and September.

Please forward all submissions at least ten days before the scheduled release date. Thank you for your contributions!

Issue	Announcement Due
Jan 2010	Dec. 11, 2009
May 2010	April 16, 2010
September 2010	August 13, 2010

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