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Dear Valued Customer,

At Voltage Multipliers Inc. we are committed to providing the best quality product and customer service. VMI is pleased to introduce film-assisted-molding and laser marking to our over-molded diode* manufacturing.

Film-assisted-molding (FAM) is a more advanced method of device encapsulation compared to conventional transfer molding in that it:

- Increases manufacturing capacity.
- Improves device encapsulation, reducing variables that contribute to compound-filling defects.
- Improves statistical process control related data collection.
- Improves VMI's on-time delivery.

Similarly to FAM, laser marking adds great benefits and device quality that significantly outweigh traditional ink marking. Benefits and quality include:

- Increased manufacturing capacity.
- Improved marking permanency, legibility, and reproducibility compared to ink marking.
- The addition of a 2D barcode to each individual molded device.
 - This allows for new lot number traceability that provides process history and characteristics such as date codes, manufacturing dates, and lot numbers of raw materials used.

Details of change:

FAM will not have an effect on the fit and function of the device. Implementing FAM will require a new, yet comparable molding compound, and a change to the device package geometry. Both of these requirements will only change the form of the device.

Laser marking will not affect device form, fit, or function. Laser marking will however improve marking permanency, legibility and reproducibility. This method of marking will also introduce a far more advanced method of traceability. Each device will have a 2D barcode that can quickly provide the manufacturing history of the product such as date codes, manufacturing process dates, and raw material lot numbers used.

These new processes will not affect the electrical performance, quality, or reliability of our product.

Timeline of change:

VMI will have a formal Process Change Notification and qualification data available by February 7th, 2020.

The new device configuration* will be available to all customers on this date. Sample parts will be available anytime upon request.

VMI will fully transition to the new device configuration by August 17th, 2020. The legacy configuration will become obsolete by August 17th, 2020. Please visit our website for our updated data sheets.

For additional information, please contact Jorge Mejia, Vice President of Diode Operations at Jmejia@VoltageMultipliers.com. We appreciate your ongoing partnership and look forward to continuing to supply you with the highest quality products and service to meet your current and future needs.

Submitted by: Jorge Mejia
Title: Vice President of Diode Operations

*Products to be updated with these process changes are SMF6529, SMF6531, SMF6531HT, SMF6533, SMF6533HT, SXF20FF3, SXF20FF3HT, SXF20FF5, SXF6521.