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*SOT-383F thin chip array reduces board space by as much as 70% versus individual discrete solutions...*

## **COMCHIP DEVELOPS LOW-PROFILE, 3.3V MULTI-LINE ESD PROTECTION DIODE ARRAY FOR PORTABLE DEVICE APPLICATIONS**

**FREMONT, Calif.** – August xx, 2011 – Comchip Technology Corporation, the leader in design and manufacture of flat chip SMD diodes, has developed a 3.3V unidirectional 4-line electrostatic discharge (ESD) protection diode array that meets the immunity requirements of IEC 61000-4-2 level 4 ( $\pm 20\text{kV}$  air,  $\pm 15\text{kV}$  contact discharge). Designated as part of the CPDVR08 Series (SOT-383F package), the CPDVR083V3UA-HF array diode features a flow-through design that simplifies board layout and reduces board space by as much as 70% when compared to four single-line discrete devices. This device improves ESD performance by reducing board trace inductance, which results in a lower clamping voltage, lower leakage current and a higher level of protection when compared to conventional ESD devices.

The CPDVR083V3UA-HF utilizes the 8-pin SOT-383F flat chip package, which measures 2.1mm x 1.6mm x 0.525mm. The RoHS-compliant device has gold terminations and is completely tin-free and halogen-free. This miniature package makes it ideal for uses in portable electronics such as lap top computers and notebooks, cell phones, digital cameras, navigation/GPS devices and MP3 players.

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## **COMCHIP DEVELOPS LOW-PROFILE, 3.3V MULTI-LINE ESD PROTECTION DIODE, P. 2**

The CPDVR083V3UA-HF is designed to protect four lines against surge conditions. Under normal circumstances, the CPDVR083V3UA-HF will present high impedances to protected lines up to 3.3V. When the line voltage exceeds the trigger voltage of 3.5V, the diode will activate. The CPDVR083V3UA-HF is recommended for flow-through design on PCB layouts, where the traces enter one side of the device and exit the other.

The CPDVR083V3UA-HF array diode features a peak pulse power ( $P_{PP}$ ) value of 40W and a peak pulse current ( $I_{PP}$ ) value of 5A. With an operating temperature range of -55°C to 125°C, the CPDVR083V3UA-HF is designed for production and its high temperature molding material can cycle through the reflow oven 3 times at 260°C for 10-12 seconds.

Stock is available from Digikey and Mouser.

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### **About Comchip Technology Corporation**

A specialized manufacturer of flat chip surface mounted diodes, Comchip Technology Corporation brings a different type of diode to the market to increase performance and lower costs. An ISO9001 & ISO14001 certified manufacturer, Comchip has produced innovative RoHS-compliant products since 2000, long before the standard was established in 2006. In addition, Comchip's devices are REACH-compliant, halogen free, and tin free, which completely eliminates tin whiskering and increases reliability of products. Established in 2000, Comchip's North American Headquarters is located in Fremont, California.