

Press Release

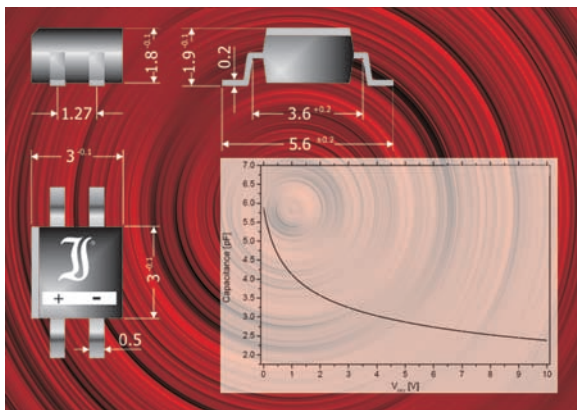
025e 16 April 2009

Text file (.txt) and high resolution picture see <http://www.diotec.com/service/presse/>**Stand 12-539**

Low Capacitance Rectifier Reduce Protection Costs in High Speed Telecom Systems

Ideally steering diodes for VDSL, ADSL and Ethernet systems

Diotec Semiconductor introduces the miniature bridge rectifier series MYS as ideally suited protective elements for high speed telecom systems. The typical junction capacitance of these devices is 3pF at 4V / 1MHz – the traditional method of characterizing rectifiers. Especially at the zero voltage crossing, the much higher capacitance of TVS Diodes and Thyristors disturbs the bandwidth of high speed telecommunication systems. The MYS series has in contrast a typical capacitance of 6pF only at zero V. This makes the product highly suitable as steering diodes for VDSL, ADSL and Ethernet systems. The MYS125 having 250 Volts of maximum reverse voltage would suit most telecom systems; higher voltages are further available.



Because the bridge has a solid soldered construction the surge capability is higher and the bridge can easily handle surges related to the capacitive discharge of the isolation transformer and secondary lightning surges. The 1.27mm pitch makes it quite space effective. The height of 1.9mm means that it can be mounted on the wave soldering side of densely populated telecom boards. The absence of wire bonds reduces inductance.

The solution reduces costs over existing solutions on the market using arrays. Typical pricing would be 0.0570 EUR/ea, parts are taped and reeled in 4000 pieces packaging unit.

For more information, visit our stand 12-539 atPCIM 2009 in Nuremberg!

Diotec Semiconductor AG of Germany is a manufacturer of discrete semiconductor diodes and rectifiers with more than 30 years of experience in this field. The company specializes in high volume manufacturing as well as customized solutions in 4 factories around the world and offers short cycle times / great flexibility and detailed technical support.

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