



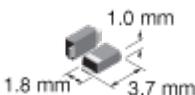
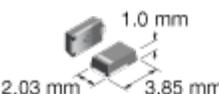
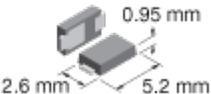
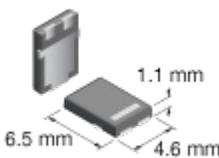
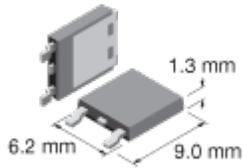
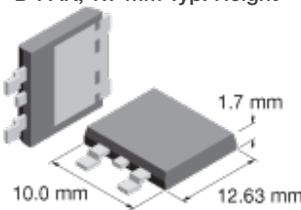
DID YOU KNOW? STANDARD RECTIFIERS WITH ESD CAPABILITY IN eSMP® PACKAGES

Vishay has introduced standard rectifiers with ESD capability in eSMP® (enhanced Surface-Mount Power) packages. These products offer a maximum average forward current ($I_{F(AV)}$) from 0.7 A to 20 A, and maximum repetitive peak reverse voltage (V_{RRM}) from 100 V to 600 V over an operating temperature range of -55 °C to 175 °C. These devices provide polarity protection in industrial and automotive applications with their high ESD capability (per IEC-6100-4-2), low capacitance, and high forward surge performance.

Human Body Model (HBM) - simulates a person becoming charged and discharging from a bare finger to ground through the being tested.

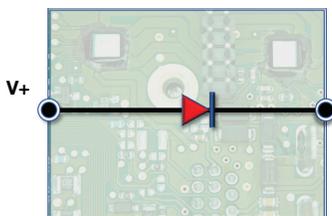
Machine Model (MM) - simulates a charged manufacturing machine discharging through the device to ground.

eSMP® Packages

<p>MicroSMP (DO-219AD)</p> <p>Space-Saving Footprint With Typical Height of 0.65 mm</p>  <p>$I_{F(AV)}$: 0.7 A and 1 A V_{RRM}: 100 V to 600 V</p>	<p>SMF (DO-219AB)</p> <p>Low Profile Package With 1 mm Height</p>  <p>$I_{F(AV)}$: 1 A, 1.5 A, and 2 A V_{RRM}: 200 V to 600 V</p>	<p>SMP (DO-220AA)</p> <p>Space-Saving Footprint With Typical Height of 1 mm</p>  <p>$I_{F(AV)}$: 0.7 A, 1 A, 1.5 A, and 2 A V_{RRM}: 100 V to 600 V</p>	<p>SMPA (DO-221BC)</p> <p>Very Low Profile Height of 0.95 mm (typical)</p>  <p>$I_{F(AV)}$: 2 A, 3 A, and 5 A V_{RRM}: 100 V to 600 V</p>
<p>SMPC (TO-277A)</p> <p>Small Footprint and Low Profile Height of 1.1 mm</p>  <p>$I_{F(AV)}$: 4 A and 7 A V_{RRM}: 100 V to 600 V</p>	<p>SlimDPAK (TO-252AE)</p> <p>Low Profile Package With Typical Height of 1.3 mm</p>  <p>$I_{F(AV)}$: 4 A, 6 A, 8 A and 10 A V_{RRM}: 100 V to 600 V</p>	<p>SMPD (TO-263AC)</p> <p>Footprint-Compatible With D²PAK, 1.7 mm Typ. Height</p>  <p>$I_{F(AV)}$: 10 A, 12 A, and 20 A V_{RRM}: 100 V to 600 V</p>	

Application Circuits

Power Line Protection



Signal Line Protection

