



| Part Number                                                                                                                                                                                 | Repetitive Peak Reverse Voltage $V_{RRM}$<br>V | Avg. Forward Current Max. $I_{FAVM}@55^{\circ}C$<br>A | Max. Forward Voltage Drop $V_F@I_{FAVM}$<br>V | Max. Reverse Current $I_R@V_{RRM}@25^{\circ}C$<br>$\mu A$ | Max. Surge Current $I_{FSM}(8.3ms)$<br>A | Max. Reverse Recovery Time $T_{RR}$<br>nS | Case L<br>Inches |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|------------------|
| <b>HVS Series - Standard Recovery Axial Lead 3.0 Amp Glass Passivated Rectifier Assembly</b> <span style="float: right;">Figure 8</span>                                                    |                                                |                                                       |                                               |                                                           |                                          |                                           |                  |
| HVS2500                                                                                                                                                                                     | 2500                                           | 1.1                                                   | 2.4                                           | 0.5                                                       | 150                                      | -                                         | 1.5              |
| HVS5000                                                                                                                                                                                     | 5000                                           | 1.1                                                   | 4.5                                           | 0.5                                                       | 150                                      | -                                         | 2.5              |
| HVS7500                                                                                                                                                                                     | 7500                                           | 1.1                                                   | 7.2                                           | 0.5                                                       | 150                                      | -                                         | 3.5              |
| HVS10000                                                                                                                                                                                    | 10000                                          | 1.1                                                   | 9.0                                           | 0.5                                                       | 150                                      | -                                         | 4.5              |
| HVS12500                                                                                                                                                                                    | 12500                                          | 1.1                                                   | 11.0                                          | 0.5                                                       | 150                                      | -                                         | 5.5              |
| HVS15000                                                                                                                                                                                    | 15000                                          | 1.1                                                   | 14.0                                          | 0.5                                                       | 150                                      | -                                         | 6.5              |
| HVS20000                                                                                                                                                                                    | 20000                                          | 1.1                                                   | 18.0                                          | 0.5                                                       | 150                                      | -                                         | 6.5              |
| HVS25000                                                                                                                                                                                    | 25000                                          | 1.1                                                   | 22.0                                          | 0.5                                                       | 150                                      | -                                         | 6.5              |
| HVS30000                                                                                                                                                                                    | 30000                                          | 1.1                                                   | 28.0                                          | 0.5                                                       | 150                                      | -                                         | 6.5              |
| <b>HVFS Series - Fast Recovery Axial Lead 3.0 Amp Glass Passivated Rectifier Assembly <math>T_{RR}</math> 250 nS</b> <span style="float: right;">Figure 8</span>                            |                                                |                                                       |                                               |                                                           |                                          |                                           |                  |
| HVFS2500                                                                                                                                                                                    | 2500                                           | 0.75                                                  | 4.0                                           | 0.5                                                       | 100                                      | 250                                       | 1.5              |
| HVFS5000                                                                                                                                                                                    | 5000                                           | 0.75                                                  | 7.0                                           | 0.5                                                       | 100                                      | 250                                       | 2.5              |
| HVFS7500                                                                                                                                                                                    | 7500                                           | 0.75                                                  | 11.0                                          | 0.5                                                       | 100                                      | 250                                       | 3.5              |
| HVFS10000                                                                                                                                                                                   | 10000                                          | 0.75                                                  | 13.0                                          | 0.5                                                       | 100                                      | 250                                       | 4.5              |
| HVFS12500                                                                                                                                                                                   | 12500                                          | 0.75                                                  | 17.0                                          | 0.5                                                       | 100                                      | 250                                       | 5.5              |
| HVFS15000                                                                                                                                                                                   | 15000                                          | 0.75                                                  | 22.0                                          | 0.5                                                       | 100                                      | 250                                       | 6.5              |
| HVFS20000                                                                                                                                                                                   | 20000                                          | 0.75                                                  | 26.0                                          | 0.5                                                       | 100                                      | 250                                       | 6.5              |
| HVFS25000                                                                                                                                                                                   | 25000                                          | 0.75                                                  | 34.0                                          | 0.5                                                       | 100                                      | 250                                       | 6.5              |
| HVFS30000                                                                                                                                                                                   | 30000                                          | 0.75                                                  | 44.0                                          | 0.5                                                       | 100                                      | 250                                       | 6.5              |
| <b>HVFES Series - Ultra Super Fast Recovery Axial Lead 3.0 Amp Fast Efficient Glass Passivated Rectifier Assembly <math>T_{RR}</math> 35 nS</b> <span style="float: right;">Figure 8</span> |                                                |                                                       |                                               |                                                           |                                          |                                           |                  |
| HVFES2500                                                                                                                                                                                   | 2500                                           | 1.3                                                   | 13.0                                          | 5.0                                                       | 50                                       | 35                                        | 3.5              |
| HVFES5000                                                                                                                                                                                   | 5000                                           | 1.3                                                   | 24.0                                          | 5.0                                                       | 50                                       | 35                                        | 6.5              |
| <b>HVUFS Series - Ultra Fast Recovery Axial Lead 3.0 Amp Rectifier Assembly <math>T_{RR}</math> 75 nS</b> <span style="float: right;">Figure 8</span>                                       |                                                |                                                       |                                               |                                                           |                                          |                                           |                  |
| HVUFS2000                                                                                                                                                                                   | 2500                                           | 2.0                                                   | 4.2                                           | 5.0                                                       | 150                                      | 75                                        | 1.5              |
| HVUFS5000                                                                                                                                                                                   | 5000                                           | 2.0                                                   | 7.0                                           | 5.0                                                       | 150                                      | 75                                        | 2.5              |
| HVUFS7500                                                                                                                                                                                   | 7500                                           | 2.0                                                   | 11.2                                          | 5.0                                                       | 150                                      | 75                                        | 3.5              |
| HVUFS10000                                                                                                                                                                                  | 10000                                          | 1.75                                                  | 14.0                                          | 5.0                                                       | 150                                      | 75                                        | 4.5              |
| HVUFS12500                                                                                                                                                                                  | 12500                                          | 1.75                                                  | 18.2                                          | 5.0                                                       | 150                                      | 75                                        | 5.5              |
| HVUFS15000                                                                                                                                                                                  | 15000                                          | 1.75                                                  | 21.0                                          | 5.0                                                       | 150                                      | 75                                        | 6.5              |
| HVUFS20000                                                                                                                                                                                  | 20000                                          | 1.75                                                  | 28.0                                          | 5.0                                                       | 150                                      | 75                                        | 6.5              |
| HVUFS25000                                                                                                                                                                                  | 25000                                          | 1.75                                                  | 35.0                                          | 5.0                                                       | 150                                      | 75                                        | 6.5              |
| <b>HVUSFS Series - Ultra Super Fast Recovery Axial Lead 2.0 Amp Rectifier Assembly <math>T_{RR}</math> 40 nS</b> <span style="float: right;">Figure 8</span>                                |                                                |                                                       |                                               |                                                           |                                          |                                           |                  |
| HVUSFS2000                                                                                                                                                                                  | 2500                                           | 1.25                                                  | 6.0                                           | 5.0                                                       | 60                                       | 40                                        | 1.5              |
| HVUSFS5000                                                                                                                                                                                  | 5000                                           | 1.25                                                  | 10.0                                          | 5.0                                                       | 60                                       | 40                                        | 2.5              |
| HVUSFS7500                                                                                                                                                                                  | 7500                                           | 1.25                                                  | 16.0                                          | 5.0                                                       | 60                                       | 40                                        | 3.5              |
| HVUSFS10000                                                                                                                                                                                 | 10000                                          | 1.25                                                  | 20.0                                          | 5.0                                                       | 60                                       | 40                                        | 4.5              |
| HVUSFS12500                                                                                                                                                                                 | 12500                                          | 1.0                                                   | 26.0                                          | 5.0                                                       | 60                                       | 40                                        | 5.5              |
| HVUSFS15000                                                                                                                                                                                 | 15000                                          | 1.0                                                   | 30.0                                          | 5.0                                                       | 60                                       | 40                                        | 6.5              |
| HVUSFS20000                                                                                                                                                                                 | 20000                                          | 1.0                                                   | 40.0                                          | 5.0                                                       | 60                                       | 40                                        | 6.5              |

See page 23 for notes on max package operating voltage -  $V_{RRM}$  vs package applicability  
 All listed products shipped on December 31, 2013 or later will be RoHS Compliant. Available earlier by special request, contact factory or sales rep for availability.