

# LEADED (THRU-HOLE) High Efficiency & Super Fast Rectifiers

HIGH EFFICIENCY RECTIFIERS

Operating Temperature: -65°C to 125°C

| RF Part Number | Cross Reference | Max Avg. Rectified Current | Peak Inverse Voltage | Peak Fwd Surge Current @ 8.3ms Superimposed | Max Forward Voltage @ 25°C @ Rated I <sub>O</sub> | Reverse Recovery Time @ Rated PIV | Max Reverse Current @ 25°C @ Rated PIV | Package   | Outline (Max in inches) |
|----------------|-----------------|----------------------------|----------------------|---|---|-----------------------------------|--|-----------|-------------------------|
|                |                 | I <sub>O</sub> (A)         | PIV(V)               | I <sub>FSM</sub> (A)                        | V <sub>FM</sub> (V)                               | T <sub>RR</sub> (ns)              | I <sub>R</sub> ( A)                    |           |                         |
| HER101         | UF4001          | 1.0 A                      | 50                   | 30  | 1.0   | 50                                | 5                                      | 1000/5000 | <p><b>DO-41</b></p>     |
| HER102         | UF4002          | 1.0 A                      | 100                  | 30  | 1.0   | 50                                | 5                                      | 1000/5000 |                         |
| HER103         | UF4003          | 1.0 A                      | 200                  | 30  | 1.0   | 50                                | 5                                      | 1000/5000 |                         |
| HER104         | UF4004          | 1.0 A                      | 300                  | 30  | 1.0   | 50                                | 5                                      | 1000/5000 |                         |
| HER105         |                 | 1.0 A                      | 400                  | 30  | 1.3   | 50                                | 5                                      | 1000/5000 |                         |
| HER106         | UF4005          | 1.0 A                      | 600                  | 30  | 1.7   | 70                                | 5                                      | 1000/5000 |                         |
| HER107         | UF4006          | 1.0 A                      | 800                  | 30  | 1.7   | 70                                | 5                                      | 1000/5000 |                         |
| HER151         |                 | 1.5 A                      | 50                   | 50  | 1.0   | 50                                | 5                                      | 500/4000  | <p><b>DO-15</b></p>     |
| HER152         |                 | 1.5 A                      | 100                  | 50  | 1.0   | 50                                | 5                                      | 500/4000  |                         |
| HER153         |                 | 1.5 A                      | 200                  | 50  | 1.0   | 50                                | 5                                      | 500/4000  |                         |
| HER154         |                 | 1.5 A                      | 300                  | 50  | 1.0   | 50                                | 5                                      | 500/4000  |                         |
| HER155         |                 | 1.5 A                      | 400                  | 50  | 1.3   | 50                                | 5                                      | 500/4000  |                         |
| HER156         |                 | 1.5 A                      | 600                  | 50  | 1.7   | 80                                | 5                                      | 500/4000  |                         |
| HER157         |                 | 1.5 A                      | 800                  | 50  | 1.7   | 80                                | 5                                      | 500/4000  |                         |
| HER301         | UF5400          | 3.0 A                      | 50                   | 150   | 1.0   | 50                                | 10                                     | 500/1200  | <p><b>DO-201AD</b></p>  |
| HER302         | UF5401          | 3.0 A                      | 100                  | 150   | 1.0   | 50                                | 10                                     | 500/1200  |                         |
| HER303         | UF5402          | 3.0 A                      | 200                  | 150   | 1.0   | 50                                | 10                                     | 500/1200  |                         |
| HER304         | UF5403          | 3.0 A                      | 300                  | 150   | 1.0   | 50                                | 10                                     | 500/1200  |                         |
| HER305         | UF5404          | 3.0 A                      | 400                  | 150   | 1.3   | 50                                | 10                                     | 500/1200  |                         |
| HER306         | UF5406          | 3.0 A                      | 600                  | 150   | 1.7   | 75                                | 10                                     | 500/1200  |                         |
| HER307         | UF5407          | 3.0 A                      | 800                  | 150   | 1.7   | 75                                | 10                                     | 500/1200  |                         |
| HER601         |                 | 6.0 A                      | 50                   | 200   | 1.0   | 60                                | 10                                     | 200/500   | <p><b>R-6</b></p>       |
| HER602         |                 | 6.0 A                      | 100                  | 200   | 1.0   | 60                                | 10                                     | 200/500   |                         |
| HER603         |                 | 6.0 A                      | 200                  | 200   | 1.0   | 60                                | 10                                     | 200/500   |                         |
| HER604         |                 | 6.0 A                      | 300                  | 200   | 1.0   | 60                                | 10                                     | 200/500   |                         |
| HER605         |                 | 6.0 A                      | 400                  | 200   | 1.3   | 60                                | 10                                     | 200/500   |                         |
| HER606         |                 | 6.0 A                      | 600                  | 200   | 1.7   | 75                                | 10                                     | 200/500   |                         |
| HER607         |                 | 6.0 A                      | 800                  | 200   | 1.7   | 75                                | 10                                     | 200/500   |                         |
| HERA801G       |                 | 8.0 A                      | 50                   | 125   | 1.3   | 50                                | 10                                     | 50/Tube   | <p><b>TO-220A</b></p>   |
| HERA802G       |                 | 8.0 A                      | 100                  | 125   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HERA803G       |                 | 8.0 A                      | 200                  | 125   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HERA804G       |                 | 8.0 A                      | 300                  | 125   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HERA805G       |                 | 8.0 A                      | 400                  | 125   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HERA806G       |                 | 8.0 A                      | 600                  | 125   | 1.5   | 80                                | 10                                     | 50/Tube   |                         |
| HERA807G       |                 | 8.0 A                      | 800                  | 125   | 1.5   | 80                                | 10                                     | 50/Tube   |                         |
| HERA1601G      |                 | 16.0 A                     | 50                   | 250   | 1.3   | 50                                | 10                                     | 50/Tube   | <p><b>TO-220</b></p>    |
| HERA1602G      |                 | 16.0 A                     | 100                  | 250   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HERA1603G      |                 | 16.0 A                     | 200                  | 250   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HERA1604G      |                 | 16.0 A                     | 300                  | 250   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HERA1605G      |                 | 16.0 A                     | 400                  | 250   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HERA1606G      |                 | 16.0 A                     | 600                  | 250   | 1.5   | 80                                | 10                                     | 50/Tube   |                         |
| HERA1607G      |                 | 16.0 A                     | 800                  | 250   | 1.5   | 80                                | 10                                     | 50/Tube   |                         |
| HER1601G       |                 | 16.0 A                     | 50                   | 125   | 1.3   | 50                                | 10                                     | 50/Tube   | <p><b>TO-220</b></p>    |
| HER1602G       |                 | 16.0 A                     | 100                  | 125   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HER1603G       |                 | 16.0 A                     | 200                  | 125   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HER1604G       |                 | 16.0 A                     | 300                  | 125   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HER1605G       |                 | 16.0 A                     | 400                  | 125   | 1.3   | 50                                | 10                                     | 50/Tube   |                         |
| HER1606G       |                 | 16.0 A                     | 600                  | 125   | 1.5   | 80                                | 10                                     | 50/Tube   |                         |
| HER1607G       |                 | 16.0 A                     | 800                  | 125   | 1.5   | 80                                | 10                                     | 50/Tube   |                         |

SUPER FAST RECTIFIERS

Operating Temperature: -65°C to 125°C

| RF Part Number | Cross Reference | Max Avg. Rectified Current | Peak Inverse Voltage | Peak Fwd Surge Current @ 8.3ms Superimposed | Max Forward Voltage @ 25°C @ Rated I <sub>O</sub> | Reverse Recovery Time @ Rated PIV | Max Reverse Current @ 25°C @ Rated PIV | Package   | Outline (Max in inches) |
|----------------|-----------------|----------------------------|----------------------|---|---|-----------------------------------|--|-----------|-------------------------|
|                |                 | I <sub>O</sub> (A)         | PIV(V)               | I <sub>FSM</sub> (A)                        | V <sub>FM</sub> (V)                               | T <sub>RR</sub> (ns)              | I <sub>R</sub> ( A)                    |           |                         |
| SF 11          |                 | 1.0 A                      | 50                   | 30  | 0.950   | 35                                | 5.0                                    | 1000/5000 | <p><b>DO-41</b></p>     |
| SF 12          |                 | 1.0 A                      | 100                  | 30  | 0.950   | 35                                | 5.0                                    | 1000/5000 |                         |
| SF 13          |                 | 1.0 A                      | 150                  | 30  | 0.950   | 35                                | 5.0                                    | 1000/5000 |                         |
| SF 14          |                 | 1.0 A                      | 200                  | 30  | 0.950   | 35                                | 5.0                                    | 1000/5000 |                         |
| SF 15          |                 | 1.0 A                      | 300                  | 30  | 1.300   | 35                                | 5.0                                    | 1000/5000 |                         |
| SF 16          |                 | 1.0 A                      | 400                  | 30  | 1.300   | 35                                | 5.0                                    | 1000/5000 |                         |
| SF21           |                 | 2.0 A                      | 50                   | 50  | 0.950   | 35                                | 5.0                                    | 500/4000  | <p><b>DO-15</b></p>     |
| SF22           |                 | 2.0 A                      | 100                  | 50  | 0.950   | 35                                | 5.0                                    | 500/4000  |                         |
| SF23           |                 | 2.0 A                      | 150                  | 50  | 0.950   | 35                                | 5.0                                    | 500/4000  |                         |
| SF24           |                 | 2.0 A                      | 200                  | 50  | 0.950   | 35                                | 5.0                                    | 500/4000  |                         |
| SF25           |                 | 2.0 A                      | 300                  | 50  | 1.300   | 35                                | 5.0                                    | 500/4000  |                         |
| SF26           |                 | 2.0 A                      | 400                  | 50  | 1.300   | 35                                | 5.0                                    | 500/4000  |                         |
| SF31           |                 | 3.0 A                      | 50                   | 125   | 0.950   | 35                                | 5.0                                    | 500/1250  | <p><b>DO-201AD</b></p>  |
| SF32           |                 | 3.0 A                      | 100                  | 125   | 0.950   | 35                                | 5.0                                    | 500/1250  |                         |
| SF33           |                 | 3.0 A                      | 150                  | 125   | 0.950   | 35                                | 5.0                                    | 500/1250  |                         |
| SF34           |                 | 3.0 A                      | 200                  | 125   | 0.950   | 35                                | 5.0                                    | 500/1250  |                         |
| SF35           |                 | 3.0 A                      | 300                  | 125   | 1.300   | 35                                | 5.0                                    | 500/1250  |                         |
| SF36           |                 | 3.0 A                      | 400                  | 125   | 1.300   | 35                                | 5.0                                    | 500/1250  |                         |