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## **Schottky Rectifiers**

#### Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

| Symbol             | Parameter  |      | Value       |      |      |       |
|--------------------|--|------|-------------|------|------|-------|
|                    |  | 1635 | 1645        | 1650 | 1660 | Units |
| $V_{RRM}$          | Maximum Repetitive Reverse Voltage   | 35   | 45          | 50   | 60   | V     |
| I <sub>F(AV)</sub> | Average Rectified Forward Current<br>.375 " lead length @ $T_A = 125^{\circ}C$ | 16   |             |      | А    |       |
| I <sub>FSM</sub>   | Non-repetitive Peak Forward Surge Current<br>8.3 ms Single Half-Sine-Wave      | 150  |             |      | А    |       |
| T <sub>stg</sub>   | Storage Temperature Range  |      | -65 to +175 |      |      | °C    |
| TJ                 | Operating Junction Temperature   |      | -65 to +150 |      |      | °C    |

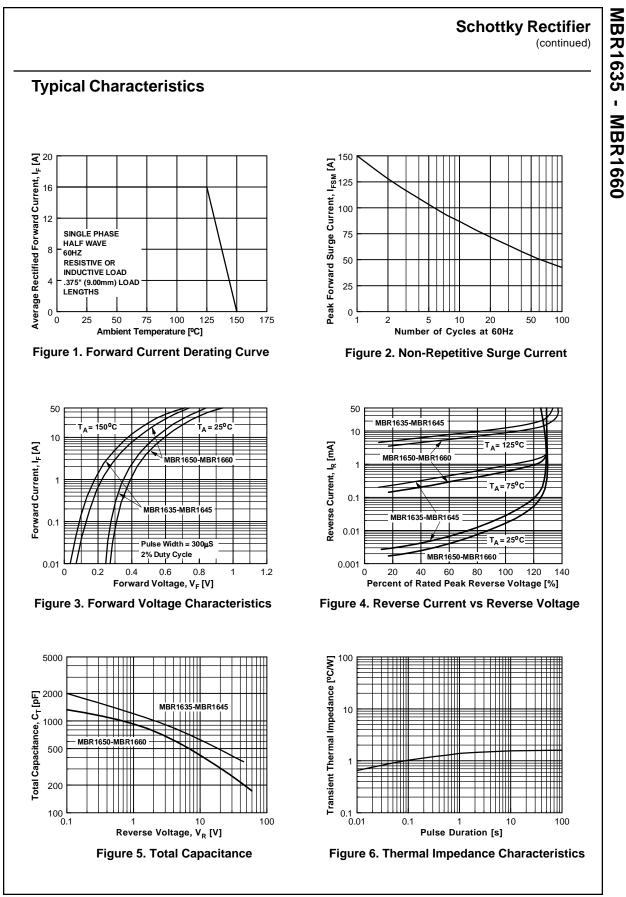
\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

## **Thermal Characteristics**

| Symbol                | Parameter                               | Value | Units |
|-----------------------|---|-------|-------|
| P <sub>D</sub>        | Power Dissipation                       | 2.0   | W     |
| $R_{\thetaJA}$        | Thermal Resistance, Junction to Ambient | 60    | °C/W  |
| $R_{	extsf{	hetaJL}}$ | Thermal Resistance, Junction to Lead    | 1.5   | °C/W  |

### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

| Symbol           | Parameter  | Device       |      |              |      | Units    |
|------------------|--|--------------|------|--------------|------|----------|
|                  |  | 1635         | 1645 | 1650         | 1660 | 1        |
| $V_{F}$          | Forward Voltage $I_{F=}$ 16 A, $T_{C}$ = 25°C $I_{F=}$ 16 A, $T_{C}$ = 125°C | 0.63<br>0.57 |      | 0.75<br>0.65 |      | V<br>V   |
| I <sub>R</sub>   | Reverse Current @ rated $V_R T_A = 25^{\circ}C$<br>$T_A = 125^{\circ}C$      | 0.2<br>40    |      | 1.0<br>50    |      | mA<br>mA |
| I <sub>RRM</sub> | Peak Repetitive Reverse Surge Current<br>2.0 us Pulse Width, f = 1.0 KHz     | 1.0          |      | 0.5          |      | А        |



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MBR1635 - MBR1660 Rev. C

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