



# 8EWF06S

| <ul><li> Operati</li><li> Reverse</li><li> Minimute</li></ul> | t with soft recovery<br>ng temperature   | rice                |             | 1 2 3<br>DPAK   | PIN 2:Cat<br>1.3:An<br>TO-252 pac                       |
|---|--|---------------------|-------------|---|---|
| Power s   | TIONS<br>ng power supply<br>switching circuits<br>I purpose  |                     |             |   |   |
| ABSOLU  | TE MAXIMUM RATINGS(Ta=25℃)   |                     |             | -   |   |
| ABSOLU<br>SYMBOL  | TE MAXIMUM RATINGS(Ta=25°C)   PARAMETER  | VALUE               | UNIT        | -<br>1   <del>   </del><br>     <del>   </del> 2                          | 3   |
|   |  | <b>VALUE</b><br>600 | UNIT        |   |   |
| SYMBOL<br>V <sub>RRM</sub><br>V <sub>RWM</sub>                | PARAMETER<br>Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage   |                     |             |   |   |
| SYMBOL<br>Vrrm<br>Vrwm<br>Vr                                  | PARAMETER<br>Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage  | 600                 | V           |   |   |
| SYMBOL<br>Vrrm<br>Vrwm<br>Vr<br>If(AV)                        | PARAMETER   Peak Repetitive Reverse Voltage   Working Peak Reverse Voltage   DC Blocking Voltage   Average Rectified Forward Current   Nonrepetitive Peak Surge Current   (Surge applied at rated load conditions                                | 600                 | V           | F   F<br>F   F<br>G   F<br>H + F<br>DIM<br>A 60<br>B 55<br>C 11<br>D 55   | MIN MAX<br>.40 6.60<br>.20 5.40<br>.15 1.35<br>.70 6.10 |
| SYMBOL<br>VRRM<br>VRWM<br>VR<br>IF(AV)<br>IFSM                | PARAMETER   Peak Repetitive Reverse Voltage   Working Peak Reverse Voltage   DC Blocking Voltage   Average Rectified Forward Current   Nonrepetitive Peak Surge Current   (Surge applied at rated load conditions half-wave, single phase, 60Hz) | 600<br>8<br>100     | V<br>A<br>A | F   F<br>G   F<br>H + F<br>DIM<br>A 60<br>B 5<br>C 1<br>D 5<br>F<br>G H 2 | MIN MAX<br>.40 6.60<br>.20 5.40<br>.15 1.35             |



### Ultrafast Rectifier

## 8EWF06S

#### THERMAL CHARACTERISTICS

| SYMBOL              | PARAMETER                            | МАХ | UNIT         |
|---------------------|--------------------------------------|-----|--------------|
| R <sub>th j-c</sub> | Thermal Resistance, Junction to Case | 2.5 | °C <b>/W</b> |

#### ELECTRICAL CHARACTERISTICS(Ta=25°C) (Pulse Test: Pulse Width=300 µ s, Duty Cycle≤2%)

| SYMBOL         | PARAMETER                             | CONDITIONS  | МАХ       | UNIT |
|----------------|---------------------------------------|---|-----------|------|
| VF*            | Maximum Instantaneous Forward Voltage | I <sub>F</sub> =8A ;Tj=25℃  | 1.4       | V    |
| I <sub>R</sub> | Maximum Instantaneous Reverse Current | V <sub>R</sub> = V <sub>RWM</sub> ;<br>V <sub>R</sub> = V <sub>RWM</sub> ;Tj=150℃ | 0.1<br>3  | mA   |
| trr            | Maximum Reverse Recovery Time         | I <sub>F</sub> =1A;di/dt = 100A/μs<br>I <sub>F</sub> =8A;di/dt = 25A/μs           | 55<br>200 | ns   |

\*:Pulse test ,Pulse width=300us,duty cycle≤2%

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