

## HIGH EFFICIENCY FAST RECOVERY RECTIFIER DIODES

### MAIN PRODUCT CHARACTERISTICS

|                |          |
|----------------|----------|
| $I_{F(AV)}$    | 2 x 10 A |
| $V_{RRM}$      | 200 V    |
| $T_j$ (max)    | 150 °C   |
| $V_F$ (max)    | 0.85 V   |
| $t_{rr}$ (max) | 25 ns    |

### FEATURES AND BENEFITS

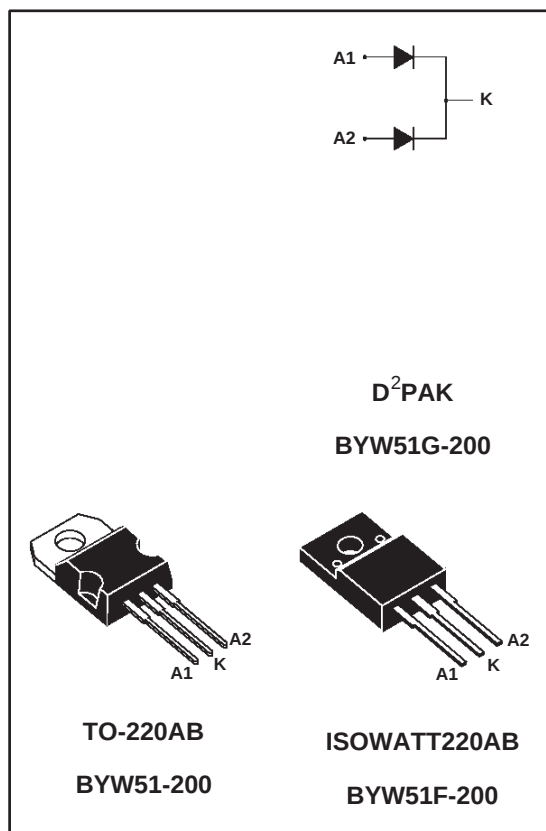
- SUITED FOR SMPS
- VERY LOW FORWARD LOSSES
- NEGLIGIBLE SWITCHING LOSSES
- HIGH SURGE CURRENT CAPABILITY
- INSULATED PACKAGES (ISOWATT220AB / TO-220FP) :  
Insulation voltage = 2500 V<sub>(RMS)</sub>  
Capacitance = 12 pF

### DESCRIPTION

Dual center tap rectifier suited for Switched Mode Power Supplies and high frequency DC to DC converters.

Packaged in TO-220AB, ISOWATT220AB, TO-220FP or D<sup>2</sup>PAK, this device is intended for use in low voltage, high frequency inverters, free wheeling and polarity protection applications.

### PRELIMINARY DATASHEET



### ABSOLUTE RATINGS (limiting values, per diode)

| Symbol              | Parameter                              |                             |                       |            | Value         | Unit |
|---------------------|----------------------------------------|-----------------------------|-----------------------|------------|---------------|------|
| V <sub>RRM</sub>    | Repetitive peak reverse voltage        |                             |                       |            | 200           | V    |
| I <sub>F(RMS)</sub> | RMS forward current                    |                             |                       |            | 20            | A    |
| I <sub>F(AV)</sub>  | Average forward current<br>δ = 0.5     | TO-220AB/D <sup>2</sup> PAK | T <sub>c</sub> =120°C | Per diode  | 10            | A    |
|                     |                                        |                             |                       | Per device | 20            |      |
|                     |                                        | ISOWATT220AB                | T <sub>c</sub> =95°C  | Per diode  | 10            |      |
|                     |                                        |                             |                       | Per device | 20            |      |
|                     |                                        | TO-220FP                    | T <sub>c</sub> =85°C  | Per diode  | 10            |      |
|                     |                                        |                             |                       | Per device | 20            |      |
| I <sub>FSM</sub>    | Surge non repetitive forward current   |                             | tp=10ms sinusoidal    |            | 100           | A    |
| T <sub>stg</sub>    | Storage temperature range              |                             |                       |            | - 65 to + 150 | °C   |
| T <sub>j</sub>      | Maximum operating junction temperature |                             |                       |            | 150           | °C   |