

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 |

PRELIMINARY DATASHEET

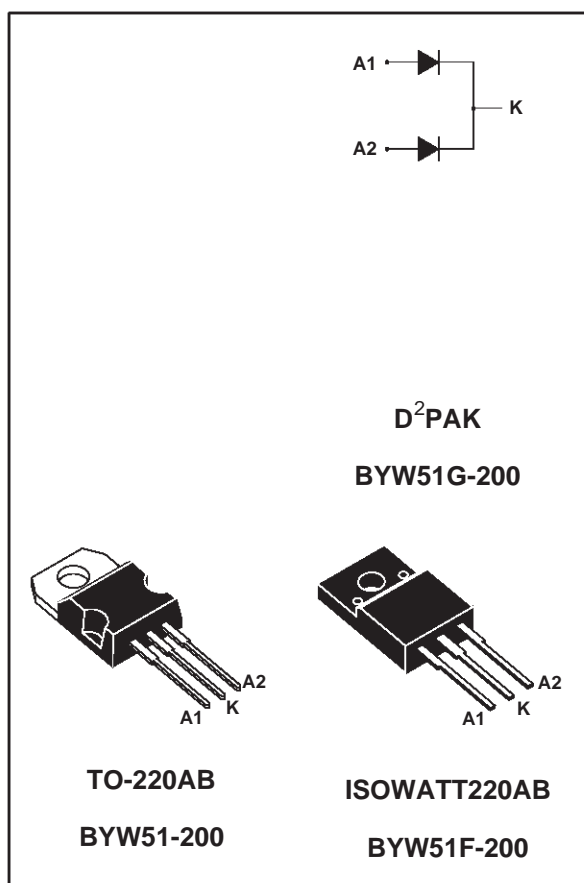
FEATURES AND BENEFITS

- SUITED FOR SMPS
- VERY LOW FORWARD LOSSES
- NEGLIGIBLE SWITCHING LOSSES
- HIGH SURGE CURRENT CAPABILITY
- INSULATED PACKAGES (ISOWATT220AB / TO-220FP) :
Insulation voltage = 2500 V_(RMS)
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 D²PAK, this device is intended for use in low voltage, high frequency inverters, free wheeling and polarity protection applications.



ABSOLUTE RATINGS (limiting values, per diode)

| Symbol | Parameter | | | Value | Unit | |
|--------------|---|-----------------------------|------------------------------|---------------|------|---|
| V_{RRM} | Repetitive peak reverse voltage | | | 200 | V | |
| $I_{F(RMS)}$ | RMS forward current | | | 20 | A | |
| $I_{F(AV)}$ | Average forward current $\delta = 0.5$ | TO-220AB/D ² PAK | $T_c=120^\circ\text{C}$ | Per diode | 10 | A |
| | | | | Per device | 20 | |
| | | ISOWATT220AB | $T_c=95^\circ\text{C}$ | Per diode | 10 | |
| | | | | Per device | 20 | |
| | | TO-220FP | $T_c=85^\circ\text{C}$ | Per diode | 10 | |
| | | | | Per device | 20 | |
| I_{FSM} | Surge non repetitive forward current | | $t_p=10\text{ms}$ sinusoidal | 100 | A | |
| T_{stg} | Storage temperature range | | | - 65 to + 150 | °C | |
| T_j | Maximum operating junction temperature | | | 150 | °C | |