



# BYW51/F/G/FP-200

## 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

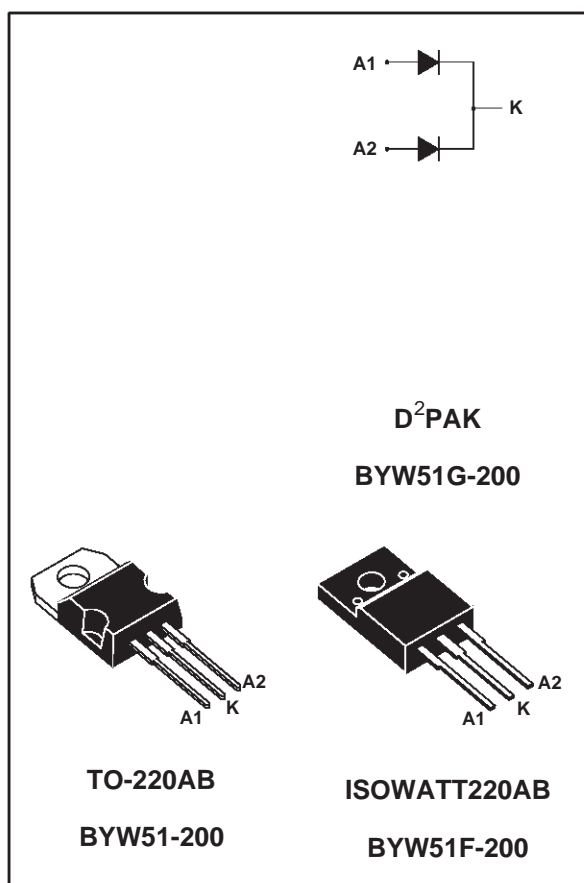
### FEATURES AND BENEFITS

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



### 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 <sup>2</sup> 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	

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