BYW51/F/G/FP-200

HIGH EFFICIENCY FAST RECOVERY RECTIFIER DIODES

PRELIMINARY DATASHEET

MAIN PRODUCT CHARACTERISTICS

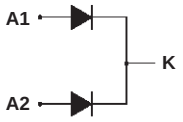
$I_{F(AV)}$	2 x 10 A
V_{RRM}	200 V
Tj (max)	150 °C
V_F (max)	0.85 V
trr (max)	25 ns

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 $V_{(RMS)}$
  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 D^2PAK, this device is intended for use in low voltage, high frequency inverters, free wheeling and polarity protection applications.



D^2PAK

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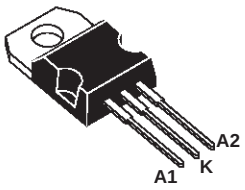

TO-220AB

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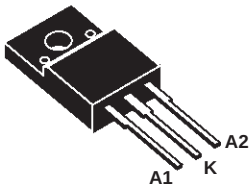

ISOWATT220AB

BYW51F-200

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^2PAK	Tc=120°C	Per diode	10	A
				Per device	20	
		ISOWATT220AB	Tc=95°C	Per diode	10	
				Per device	20	
		TO-220FP	Tc=85°C	Per diode	10	
				Per device	20	
I_{FSM}	Surge non repetitive forward current		tp=10ms sinusoidal		100	A
Tstg	Storage temperature range				- 65 to + 150	°C
Tj	Maximum operating junction temperature				150	°C