

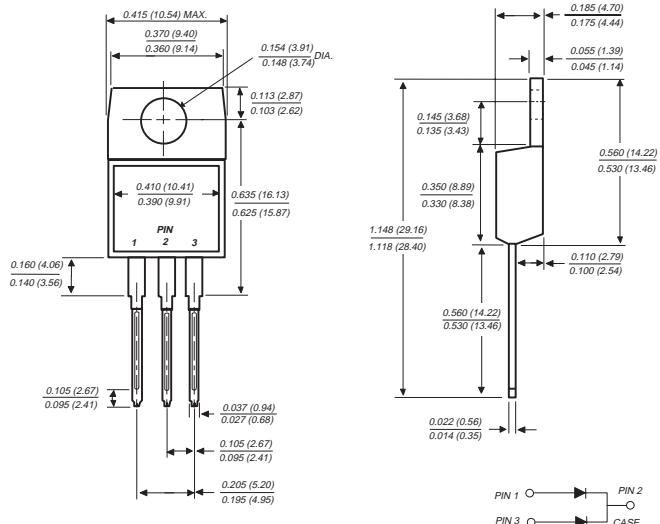
BYV32-50 THRU BYV32-200

FAST EFFICIENT PLASTIC RECTIFIER

Reverse Voltage - 50 to 150 Volts

Forward Current - 18.0 Amperes

TO-220AB



FEATURES

- ◆ Dual rectifier construction, positive centertap
- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Glass passivated chip junctions
- ◆ Low power loss
- ◆ Low forward voltage, high current capability
- ◆ High surge capability
- ◆ Superfast recovery time for high efficiency
- ◆ High temperature soldering guaranteed: 250°C, 0.16" (4.06mm) from case for 10 seconds



MECHANICAL DATA

Case: JEDEC TO-220AB molded plastic body over passivated chips

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: As marked

Mounting Position: Any

Weight: 0.08 ounce, 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	BYV32-50	BYV32-100	BYV32-150	BYV32-200	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	Volts
Maximum RMS voltage	V _{RMS}	35	70	105	140	Volts
Maximum DC blocking voltage	V _{DC}	50	100	150	200	Volts
Maximum average forward rectified current at T _C =120°C	I _(AV)			18.0		Amps
Peak forward surge current 10ms single half sine-wave superimposed at T _J =150°C	I _{FSM}			150.0		Amps
Maximum instantaneous forward voltage per leg at: I _F =20A I _F =5.0A, T _J =100°C	V _F			1.15 0.85		Volts
Maximum DC reverse current T _C =25°C at rated DC blocking voltage T _C =100°C	I _R			10.0 600.0		µA
Maximum reverse recovery time per leg (NOTE 1)	t _{rr}			25.0		ns
Typical junction capacitance per leg (NOTE 2)	C _J			45.0		pF
Maximum thermal resistance per leg (NOTE 3)	R _{θJA} R _{θJC}			20.0 3.0		°C/W
Operating and storage temperature range	T _J , T _{STG}			-65 to +150		°C

NOTES:

(1) Reverse recovery test conditions: I_f=1A V_R=30V, dI/dt=100A/µs, Irr=10% I_{RM}

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

(3) Thermal resistance from junction to ambient and from junction to case per leg mounted on heatsink

RATINGS AND CHARACTERISTIC CURVES BYV32-50 THRU BYV32-200

