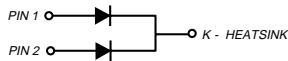
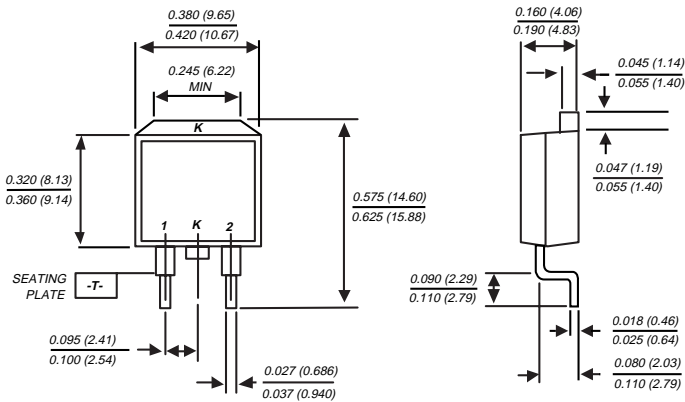


BYVB32-50 THRU BYVB32-200

FAST EFFICIENT PLASTIC RECTIFIER

Reverse Voltage - 50 to 150 Volts Forward Current - 18.0 Amperes

TO-263AB



Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Dual rectifier construction, positive centertap
- ◆ 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 in accordance with CECC 802 / Reflow guaranteed



MECHANICAL DATA

Case: JEDEC TO-263AB molded plastic body

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	BYVB32-50	BYVB32-100	BYVB32-150	BYVB32-200	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 $T_C=120^\circ\text{C}$	$I_{(AV)}$	18.0				Amps
Peak forward surge current 10ms single half sine-wave superimposed at at $T_J=150^\circ\text{C}$	I_{FSM}	150.0				Amps
Maximum instantaneous forward voltage per leg at: $I_F=20\text{A}$, $I_F=5.0\text{A}$, $T_J=100^\circ\text{C}$	V_F	1.15 0.85				Volts
Maximum DC reverse current at rated DC blocking voltage $T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$	I_R	10.0 600.0				μA
Maximum reverse recovery time per leg (NOTE 1)	t_{rr}	35.0				ns
Typical junction capacitance (NOTE 2)	C_J	45.0				pF
Maximum thermal resistance per leg (NOTE 3)	$R_{\theta JC}$	3.0				$^\circ\text{C/W}$
Operating and storage temperature range	T_J, T_{STG}	-65 to +150				$^\circ\text{C}$

NOTES:

(1) Reverse recovery test conditions: $I_F=1\text{A}$ $V_R=30\text{V}$, $di/dt=100\text{A}/\mu\text{s}$, $I_{rr}=10\% I_{RM}$

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

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

NOTICE: Advanced product information is subject to change without notice

RATINGS AND CHARACTERISTIC CURVES BYVB32-50 THRU BYVB32-200

FIG. 1 - FORWARD CURRENT DERATING CURVE

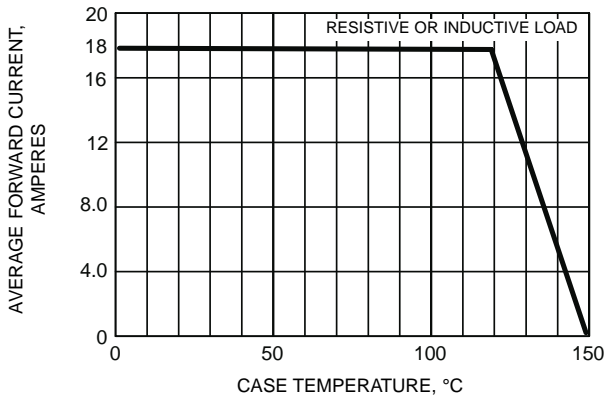


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

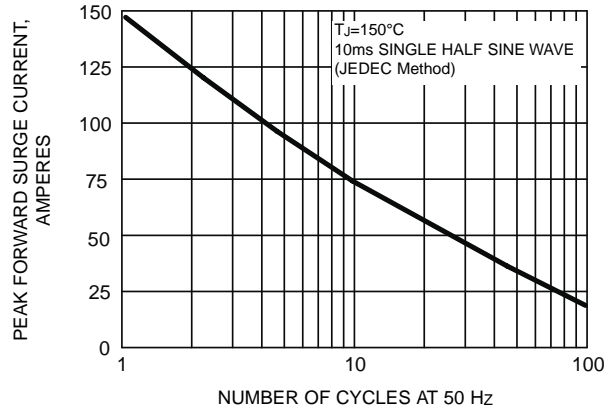


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

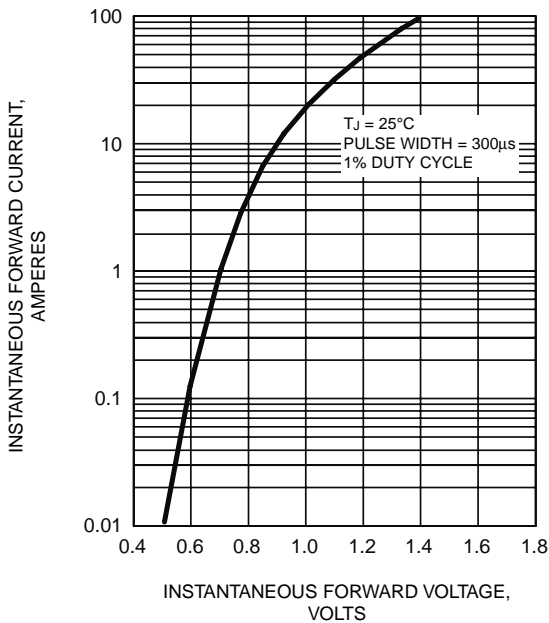


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

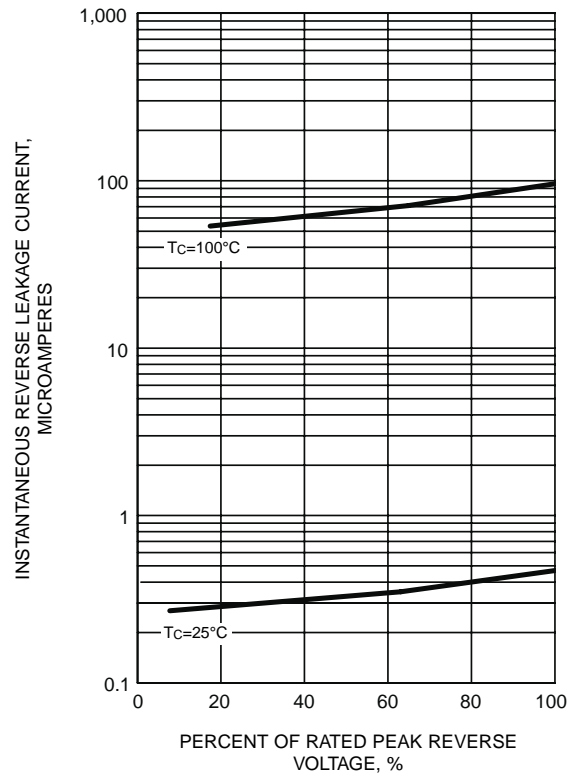


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

