

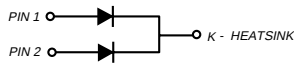
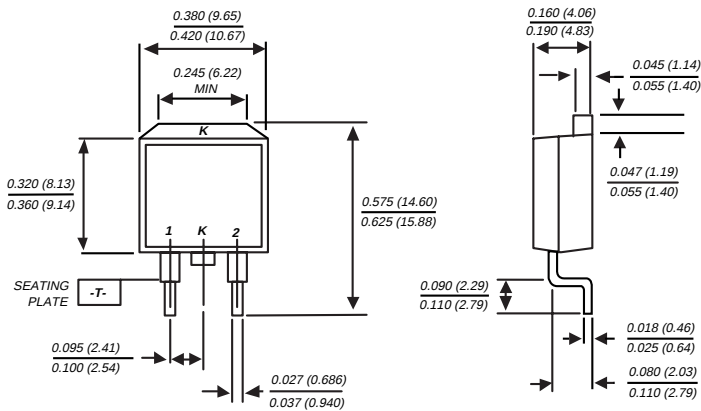
FEPB16AT THRU FEPB16JT

FAST EFFICIENT PLASTIC RECTIFIER

Reverse Voltage - 50 to 600 Volts

Forward Current - 16.0 Amperes

TO-263AB



Dimensions are 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 current capability
- ♦ Superfast recovery times 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	FEPB 16AT	FEPB 16BT	FEPB 16CT	FEPB 16DT	FEPB 16FT	FEPB 16GT	FEPB 16HT	FEPB 16JT	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	150	200	300	400	500	600	Volts
Maximum RMS voltage	VRMS	35	70	105	140	210	280	350	420	Volts
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	500	600	Volts
Maximum average forward rectified current at Tc=100°C	l(AV)	16.0								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at Tc=100°C per leg	lFSM	200.0								Amps
Maximum instantaneous forward voltage per leg at 8.0A	VF	0.95				1.3		1.5		Volts
Maximum DC reverse current at rated DC blocking voltage per leg	IR	10.0 500.0								μA
Maximum reverse recovery time (NOTE 1) per leg	trr	35.0				50.0				ns
Typical junction capacitance per leg (NOTE 2)	CJ	85.0						60.0		pF
Typical thermal resistance (NOTE 3)	RθJC	2.2								°C/W
Operating junction and storage temperature range	TJ, TSTG	-55 to +150								°C

NOTES:

- (1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
- (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 CHARACTERISTICS CURVES FEPB16AT THRU FEPB16JT

FIG. 1 - FORWARD CURRENT DERATING CURVE

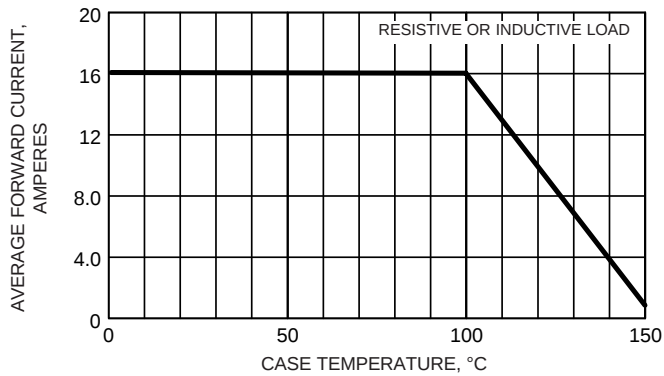


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

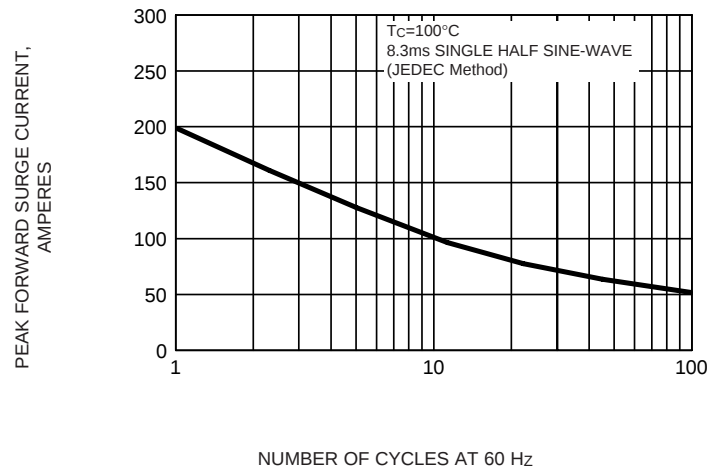


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

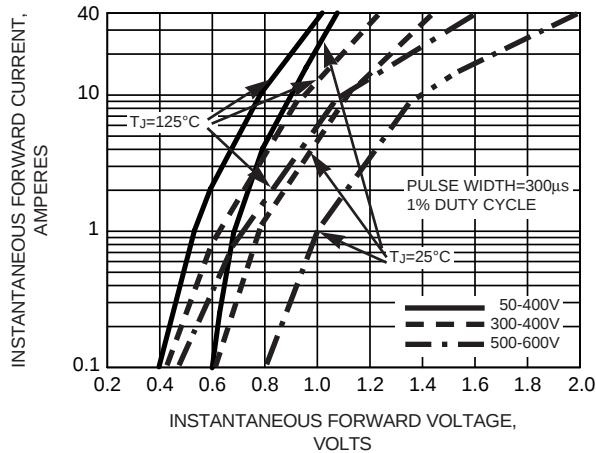


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

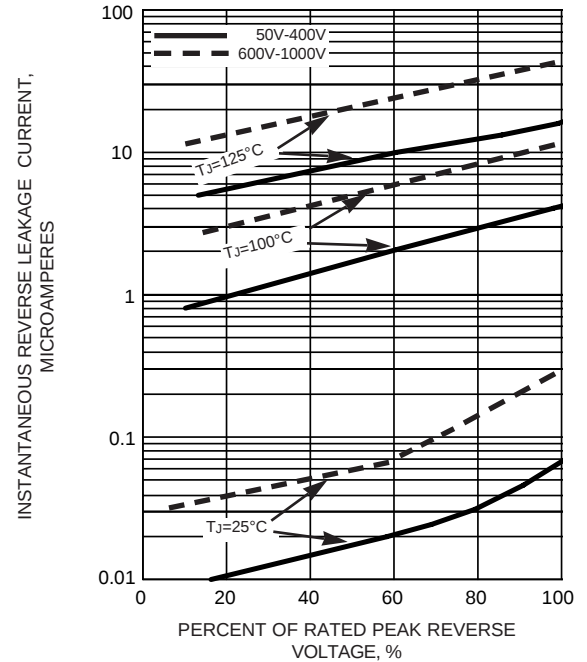


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

