

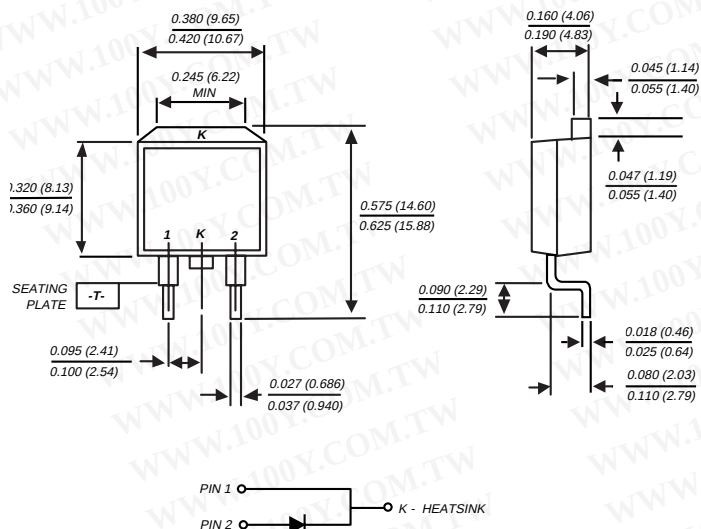
FESB16AT THRU FESB16JT

FAST EFFICIENT PLASTIC RECTIFIER

Reverse Voltage - 50 to 600 Volts

Forward Current - 16.0 Amperes

TO-263AB



FEATURES

- ♦ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ♦ Glass passivated chip junction
- ♦ Low power loss
- ♦ Low forward voltage, high current capability
- ♦ High surge current 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 over passivated chips

Terminals: Plated lead 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	FESB 16AT	FESB 16BT	FESB 16CT	FESB 16DT	FESB 16FT	FESB 16GT	FESB 16HT	FESB 16JT	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	500	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	350	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	500	600	Volts
Maximum average forward rectified current at T _C =100°C	I _(AV)	16.0								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at T _C =100°C	I _{FSM}	250.0								Amps
Maximum instantaneous forward voltage at 16A	V _F	0.975				1.3		1.5		Volts
Maximum DC reverse current at rated DC blocking voltage T _C =25°C T _C =100°C	I _R	10.0 500.0								μA
Maximum reverse recovery time (NOTE1)	t _{rr}	35.0				50.0				ns
Typical junction capacitance (NOTE 2)	C _J	175.0						145.0		pF
Typical thermal resistance (NOTE 3)	R _{θJC}	1.2								°C/W
Operating and storage temperature range	T _J , T _{STG}	-65 to +150								°C

NOTES:

- (1) Reverse recovery test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $t_{rr}=0.25\text{A}$
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to case

勝特力材料 886-3-5753170
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RATINGS AND CHARACTERISTICS CURVES FESB16AT THRU FESB16JT

FIG. 1 - FORWARD CURRENT DERATING CURVE

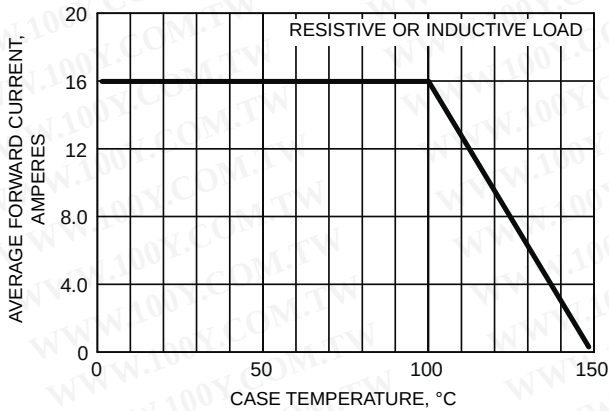


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

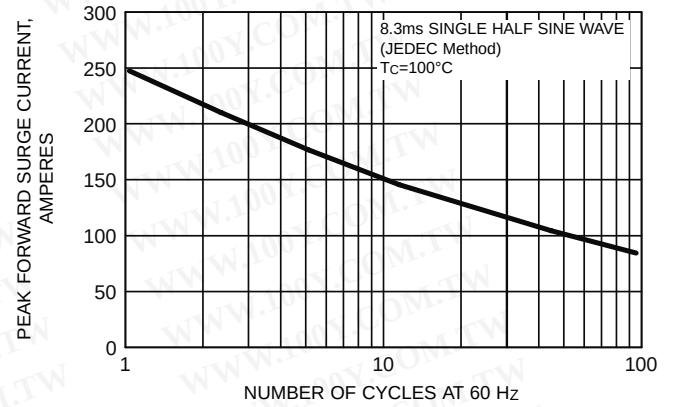


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

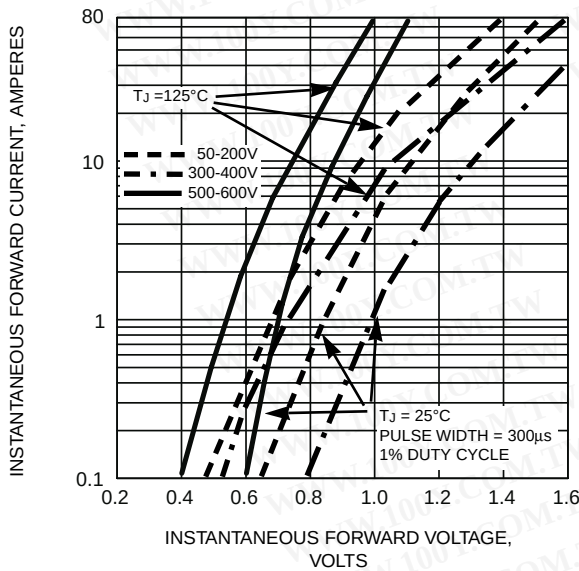


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

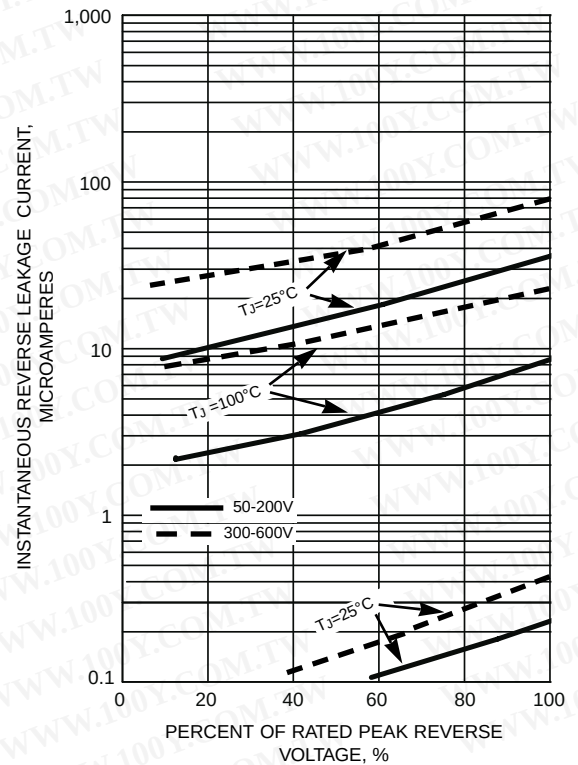
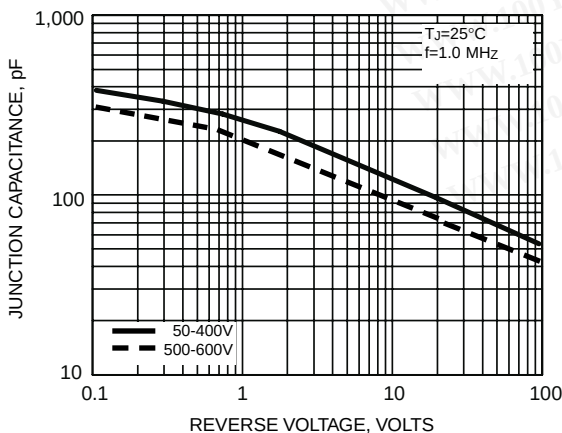


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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