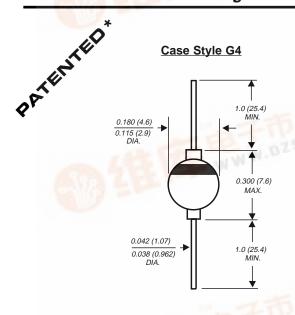
# FE3A THRU FE3D

## **GLASS PASSIVATED FAST EFFICIENT RECTIFIER**

Reverse Voltage - 50 to 200 Volts

Forward Current - 3.0 Amperes



Dimensions in inches and (millimeters)

\* Brazed-lead assembly is covered by Patent No. 3,930,306

#### **FEATURES**

- ♦ High temperature metallurgically bonded construction
- ♦ Glass passivated cavity-free junction
- ◆ Superfast recovery time for high efficiency
- ◆ Low forward voltage, high current capability
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ♦ Hermetically sealed package
- ◆ Low leakage current
- High surge current capability
- ♦ High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: Solid glass body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

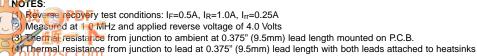
Mounting Position: Any

Weight: 0.037 ounce, 1.04 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

FRI C	SYMBOLS	FE3A	FE3B	FE3C	FE3D	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	150	200	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	105	140	Volts
Maximum DC blocking voltage	VDC	50	100	150	200	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at Ta=55°C	I <sub>(AV)</sub>	3.0			Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125.0			Amps	
Maximum instantaneous forward voltage at 3.0A	VF	0.95			Volts	
Maximum DC reverse current at rated DC blocking voltage  TA=25°C TA=100°C	IR	5.0 50.0			μА	
Maximum reverse recovery time (NOTE 1)	trr	35.0			ns	
Typical junction capacitance (NOTE 2)	CJ	100.0			pF	
Typical thermal resistance (NOTE 3, 4)	R⊕ja R⊕jl		55.0 20.0			°C/W
Operating junction and storage temperature range	TJ, TSTG		-65 to +175			°C



## **RATINGS AND CHARACTERISTIC CURVES FE3A THRU FE3D**

