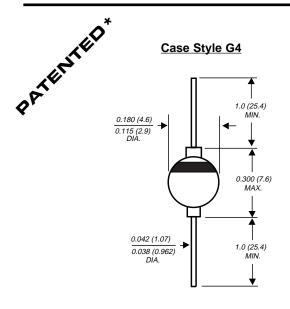
FE3A THRU FE3D

GLASS PASSIVATED FAST EFFICIENT RECTIFIER

Reverse Voltage - 50 to 200 Volts

Forward Current - 3.0 Amperes



Dimensions in inches and (millimeters)

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.

		SYMBOLS	FE3A	FE3B	FE3C	FE3D	UNITS
Maximum repetitive peak reverse voltage		VRRM	50	100	150	200	Volts
Maximum RMS voltage		VRMS	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 T _A =55°C		I(AV)	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	T _A =25°C T _A =100°C	lR		5.0 50.0		μА	
Maximum reverse recovery time (NOTE 1)		t _{rr}		35	5.0		ns
Typical junction capacitance (NOTE 2)		CJ		10	0.0		pF
Typical thermal resistance (NOTE 3, 4)		R⊕ja R⊕jl			5.0).0		°C/W
Operating junction and storage temperature range		TJ, TSTG		-65 to	+175		°C

NOTES:

- (1) Reverse recovery test conditions: IF=0.5A, IR=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 ambient at 0.375" (9.5mm) lead length mounted on P.C.B.
- (4) Thermal resistance from junction to lead at 0.375" (9.5mm) lead length with both leads attached to heatsinks



^{*} Brazed-lead assembly is covered by Patent No. 3,930,306

RATINGS AND CHARACTERISTIC CURVES FE3A THRU FE3D

