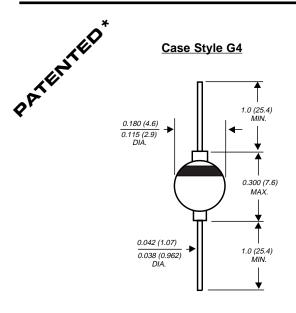
FE5A THRU FE5D

GLASS PASSIVATED FAST EFFICIENT RECTIFIER

Reverse Voltage - 50 to 200 Volts

Forward Current - 5.0 Amperes



Dimensions in inches and (millimeters)

FEATURES

- ♦ High temperature metallurgically bonded construction
- ♦ Glass passivated cavity-free junction
- ◆ Super fast 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: 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	FE5A	FE5B	FE5C	FE5D	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	150	200	Volts
Maximum RMS voltage	V _{RMS}	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 TL=55°C	I _(AV)	5.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	135.0				Amps
Maximum instantaneous forward voltage at 5.0A	VF	0.95			Volts	
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R	5.0 50.0			μΑ	
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

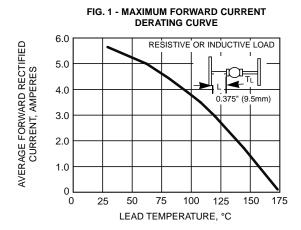
NOTES

- (1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC
- (3) Thermal resistance from junction to lead at 0.375" (9.5mm) lead length with both leads attached to heatsinks
- (4) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length and mounted on P.C.B.



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

RATINGS AND CHARACTERISTIC CURVES FE5A THRU FE5D



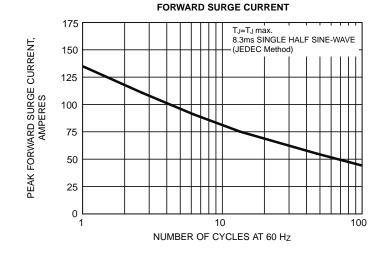


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK

