FE2A THRU FE2D

GLASS PASSIVATED FAST EFFICIENT RECTIFIER

Reverse Voltage - 50 to 200 Volts

Forward Current - 2.0 Amperes

DO-204AP 0.034 (0.86) 0.028 (0.71) DIA. 0.150 (3.8) 0.100 (2.5) DIA. 1.0 (25.4) MIN. 1.0 (25.4) MIN.

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
- ♦ High surge capability
- ◆ High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-204AP solid glass body

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

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.56 gram

MAXIMUM RATINGS AND MECHANICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	FE2A	FE2B	FE2C	FE2D	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	V _{DC}	50	100	150	200	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _L =75°C	I _(AV)	2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50.0				Amps
Maximum instantaneous forward voltage at 2.0A	VF	0.95				Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	lR	2.0 50.0			μА	
Maximum reverse recovery time (NOTE 1)	trr	35.0			ns	
Typical junction capacitance (NOTE 2)	Сл	45.0			pF	
Typical thermal resistance (NOTE 3, 4)	Roja Rojl	60.0 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 ambient at 0.375" (9.5mm) lead length and mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads
- (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 FE2A THRU FE2D











