



INTERNATIONAL SEMICONDUCTOR, INC.

**2FUA050
thru
2FUA1000**

ULTRA-FAST RECOVERY SINGLE PHASE BRIDGE

FEATURES:

Ultrafast 25, 50, and 75 Nanosecond Recover Times
Low Forward Voltage - Low Leakage Current
Reverse Voltage to 1000 Volts
Surge overload rating - 35 amperes peak
Ideal for printed circuit board applications
High Temperature Glass Passivated Junctions

MECHANICAL DATA:

CASE: Liquid crystal polymer plastic meets the requirements of MIL-M-24519C

TERMINALS: Leads Solderable per MIL-STD-202

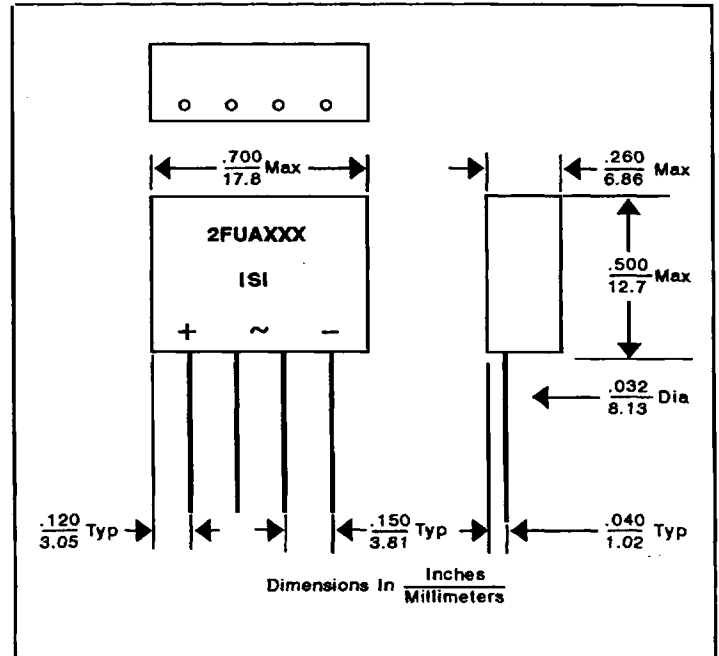
POLARITY: Terminal symbols printed on top of case

MOUNTING POSITION: Any

WEIGHT: 0.09 ounces (2.6 grams)

CUSTOM DESIGNS:

Specific variations in electrical and/or mechanical characteristics available upon request



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, full wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbol	2FUA050	2FUA100	2FUA200	2FUA400	2FUA600	2FUA800	2FUA1000	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _a (RMS)	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _R	50	100	200	400	600	800	1000	Volts
Max Average Forward Current (60 Hz, T _c =40°C, Single phase bridge resistive load)	I _o	2.0 at T _A =130°C		2.0 at T _A =120°C			2.0 at T _A =95°C		Amps
Maximum Forward Surge Current 8.3 ms single half sine wave superimposed on rated load	I _{FSM}	35.0							Amps
Max. Instantaneous Forward Drop per diode (1) (I _F =1.0 amp, T _J =150°C) (I _F =1.0 amp, T _J =25°C)	V _F	0.710	1.05			1.50		Volts Volts	
	V _F	0.875	1.25			1.75			
Max. Instantaneous Reverse Current per diode (1) (Rated dc Voltage, T _J =150°C) (Rated dc Voltage, T _J =25°C)	I _R	50	150			600		µA µA	
	I _R	2.0	5.0			10			
Maximum Reverse Recovery Time (I _F =1.0 amp, di/dt=50 Amp/us) (I _F =0.5 amp, I _R =1.0 Amp, I _{REC} =0.25A)	t _{rr}	35	75			100		ns ns	
	t _{rr}	25	50			75			
Operating Junction & Storage Temperature Range	T _J , T _{STG}	-55 to +175							°C

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