



RECTRON SEMICONDUCTOR

TECHNICAL SPECIFICATION

FRS201L THRU FRS207L

FAST RECOVERY BRIDGE RECTIFIER

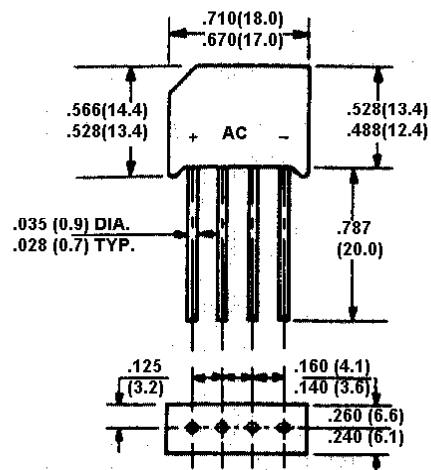
FEATURES

- Fast switching
- Surge overload rating: 50A peak
- Ideal for PCB mounting
- Weight: 2.74 grams

MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

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

RS-2L



Dimensions in inches (millimeters)

Electrical Characteristics (Ta=25°C)

RATING	SYMBOL	FRS201L	FRS202L	FRS203L	FRS204L	FRS205L	FRS206L	FRS207L	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current TA= 50°C	IO	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC methode)	IFSM	50							Amps
Typical Junction Capacitance F= 1MHz, VR= 4.0V	CJ	15							pF
Operating Temperature Range	TJ	-65 to +125							°C
Storage Temperature Range	TSTG	-65 to +150							°C

CHARACTERISTIC	SYMBOL	FRS201L	FRS202L	FRS203L	FRS204L	FRS205L	FRS206L	FRS207L	UNITS
Maximum Recurrent Peak Reverse Voltage	VF	1.3							V
Maximum RMS Voltage	IR	10							uA
Maximum DC Blocking Voltage		500							uA
Maximum Reverse Recovery Time If= 0.5A, Ir= 1.0A, Irr= 0.25A	trr	150				250	500		nsec

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