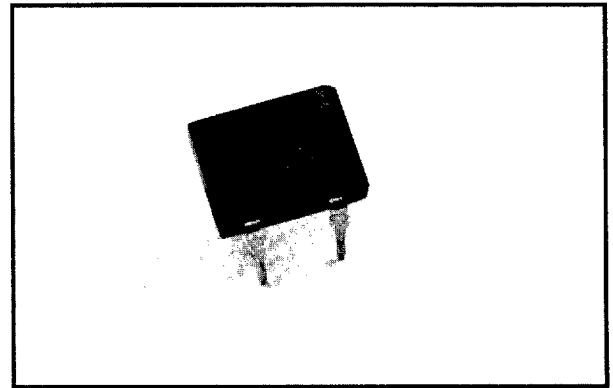
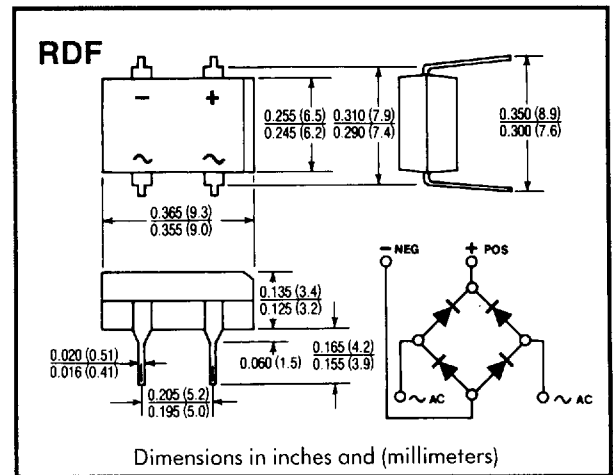


# RDF005 Thru RDF10

## 1 AMP FAST RECOVERY BRIDGE RECTIFIER



### Outline Drawing



### FEATURES

- Rating to 1000V PRV
- High efficiency
- Surge overload rating to 30 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

### Mechanical Data

- Case: Molded Plastic
- Leads: Silver plated copper
- Leads solderable per MIL-STD-202, Method 208
- Polarity: Symbols molded on body
- Weight: 0.02 ounce, 0.45 grams

### Maximum Ratings & Characteristics

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

		RDF005	RDF01	RDF02	RDF04	RDF06	RDF08	RDF10	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ T <sub>A</sub> = 40°C	I <sub>(AV)</sub>					1.0			A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>					30			A
Maximum DC Forward Voltage Drop Per Element At 1.0A DC	V <sub>F</sub>					1.3			V
Maximum Reverse Current At Rated DC Blocking Voltage per Element @ T <sub>A</sub> = 25°C	I <sub>R</sub>					5			μA
						0.5			mA
Maximum recovery time (Note 1)	t <sub>rr</sub>	200				300	500		nS
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t					3.7			A <sup>2</sup> S
Operating Temperature Range	T <sub>J</sub>					-55 to +125			°C
Storage Temperature Range	T <sub>STG</sub>					-55 to +150			°C

Note: 1. Reverse recovery test conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = -1.0A, I<sub>RR</sub> = -0.25A