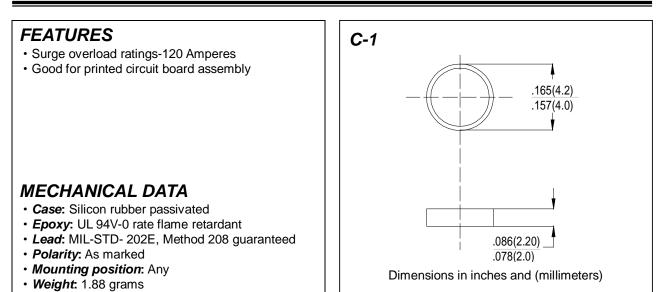
## **RC6005 THRU RC610**

## SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 6.0A



## MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		SYMBOL	RC6005	RC601	RC602	RC604	RC606	RC608	RC610	units
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge 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 rectified Output Current at $T_A$ =50°C		I <sub>o</sub>	6.0						Α	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I <sub>FSM</sub>	120						A	
Maximum Forward Voltage Drop per element at 6.0A DC		V <sub>F</sub>	1.0						v	
Maximum DC Reverse Current at Rated DC Blocking Voltage	=25°C	I <sub>R</sub>	5.0						μA	
	=100°C			500						-
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)		l <sup>2</sup> t	10						A <sup>2</sup> S	
Typical Junction Capacitance (Note 1)		С	25						pF	
Typical Thermal Resistance (Note 2)		R <sub>0JA</sub>	40					°C/W		

Notes: 1.Measured at 1MHz and applied reverse voltage of 4.0 volts

2.Thermal Resistance from Junction to lead mounted on P.C.B with 0.47×0.47"(12×12mm) copper pads