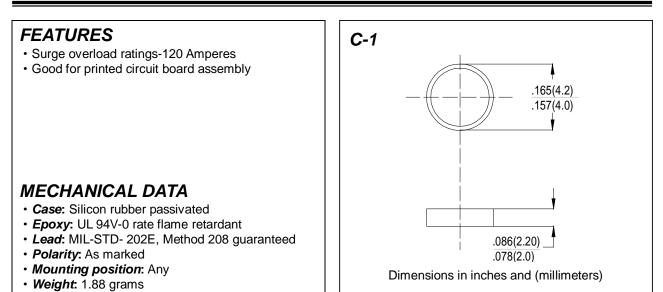
RC6005 THRU RC610

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 6.0A



MAXIMUM RATINGS AND ELECTRONICAL 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%.

		SYMBOL	RC6005	RC601	RC602	RC604	RC606	RC608	RC610	units
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward rectified Output Current at T_A =50°C		I _o	6.0						Α	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I _{FSM}	120						A	
Maximum Forward Voltage Drop per element at 6.0A DC		V _F	1.0						v	
Maximum DC Reverse Current at Rated DC Blocking Voltage	=25°C	I _R	5.0						μA	
	=100°C			500						-
I ² t Rating for Fusing (t < 8.3ms)		l ² t	10						A ² S	
Typical Junction Capacitance (Note 1)		С	25						pF	
Typical Thermal Resistance (Note 2)		R _{0JA}	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