New Jersey Semi-Conductor Products, Inc.

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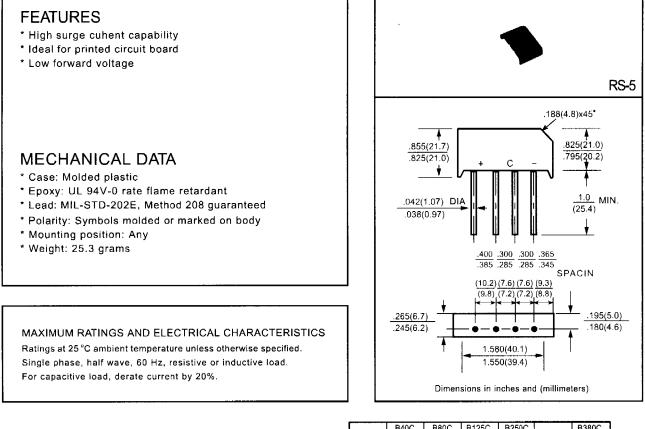
B40C / RS501 5000 /	TELEPHONE: (973) 376-2922 (212) 227-6005
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B380C /RS507	

5000 RS507

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 5.0 Amperes



				B40C	B80C	B125C	B250C		B380C	
				5000	5000	5000	5000		5000	
		SYMBOL	RS501	RS502	RS503	RS504	RS505	R\$506	RS507	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		Voc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 50°C		lo	5.0							Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		lfsm	30						Amps	
Maximum Forward Voltage Drop per element at 3.0A DC		VF	1.0						Volts	
Maximum CD Reverse Current at Rated DC Blocking Voltage per element	@TA = 25°C	- IR	10						uAmps	
	@TA = 100°C			500						
I ² t Rating for Fusing (t<8.3ms)		l ² t	312							A ² Sec
Typical Junction Capacitance (Note1)		CJ	15						pF	
Typical Thermal Resistance (Note 2)		RθJA	2.0							°C/W
Operating Temperature Range		TJ	-55 to + 125							°C
Storage Temperature Range		Tstg	-55 to + 150							°C



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

2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.47 x 0.47" (12x12mm) copper pads.

Quality Semi-Conductors