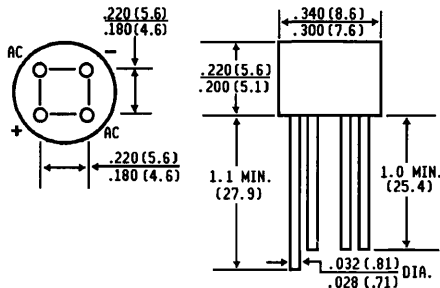


B40C / B80C / B125C / B250C / B380C 800M SERIES

MINIATURE SINGLE - PHASE SILICON BRIDGE RECTIFIER
Voltage - 65 to 600 Volts Current - 0.9 Amperes

FEATURES



Dimensions in inches
and
(millimeters)

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High case dielectric strength
- ◆ Typical I_R less than $0.1 \mu A$
- ◆ High overload surge current
- ◆ Ideal for printed circuit board
- ◆ High temperature soldering guaranteed
250°C/10 seconds/.375", (9.5mm) lead length at 5 lbs., (2.3kg) tension

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique

Terminals: Plated Leads solderable per MIL-STD-202, Method 208

Mounting Position: Any

Weight: 0.05 ounce, 1.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. 50 Hz or 60 Hz, resistive or inductive load.

	SYMBOLS	B40	B80	B125	B250	B380	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	65	125	200	400	600	Volts	
Maximum RMS Inpur Voltage R + C-Load	V_{RMS}	40	80	125	250	380	Volts	
Maximum Average Forward Output Current for free air operation at $T_A = 45^\circ C$	$I_{(AV)}$							Amps
R + L-Load								
C - Load		0.8						
Maximum DC Blocking Voltage	V_{DC}	65	125	200	400	600	Volts	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	65	125	200	400	600	Volts	
Maximum Peak Working Voltage	V_{RWM}	90	180	300	600	900	Volts	
Maximum Non-Repetitive Peak Voltage	V_{RSM}	100	200	350	600	1000	Volts	
Maximum Repetive Peak Forward Surge Current	I_{FRM}	10.0					Amps	
Peak Forward Surge Current	I_{FSM}							Amps
Single Sine wave on rated load at $T_J = 125^\circ C$								
Rating for Fusing at $T_J = 125^\circ C$ ($t < 100ms$)	$I^2 t$	10.0					A ² S	
Minimum Series Resistor C-Load $V_{RMS} = + 10\%$	R_t	1.0	2.0	4.0	8.0	12.0	ohms	
Maximum Load Capacitance +50%	C_L	5000	2500	1000	500	200	μF	
-10%								
Maximum Instantaneous Forward Voltage Drop per element at 0.9A	V_F	1.0					Volts	
Maximum Reverse Current at rated Repetitive Peak Voltage per element $T_A = 25^\circ C$	I_R	10.0					μA	
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	36.0					$^\circ C/W$	
Operating Temperature Range	T_J	-40 to +125					$^\circ C$	
Storage Temperature Range	T_{STG}	-40 to +150					$^\circ C$	

NOTES:

1. Thermal Resistance from Junction to Ambient mounted on P.C Board at .375" (9.5mm) Lead Lengths with 0.2" x 0.2" (5.5mm and 5.5mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES B40C THRU B380C 800M

