

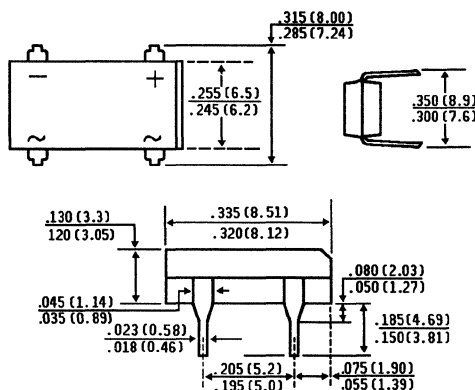
B40C 800DM THRU B380 C800DM

MINIATURE GLASS PASSIVATED SINGLE - PHASE BRIDGE RECTIFIER

Voltage - 65 to 600 Volts **Current** - 0.9 Amperes

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Glass passivated chip junctions
- ◆ Surge overload rating of 45 Amperes peak
- ◆ Ideal for printed circuit board
- ◆ High temperature soldering guaranteed: 260°C / 10 seconds at 5 lbs., (2.3kg) tension



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic

Terminals: Plated Leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on body

Mounting Position: Any

Weight: 0.04 ounce, 1.0 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

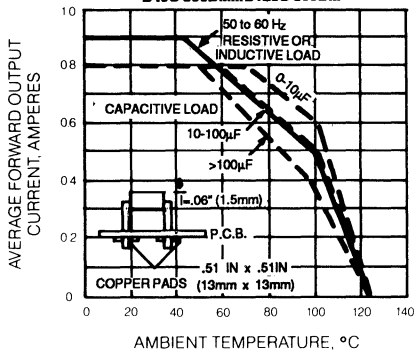
	SYMBOLS	B40	B80	B125	B250	B380	UNITS
		C800DM	C800DM	C800DM	C800DM	C800DM	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	65	125	200	400	600	Volts
Maximum RMS Input Voltage R + C-Load	V_{RMS}	40	80	125	250	380	Volts
Maximum Average Forward Output Current for free air operation at $T_A=45^\circ\text{C}$ R + L-Load C-Load	$I_{(AV)}$	0.9 0.8					Amps
Maximum DC Blocking Voltage	V_{DC}	65	125	200	400	600	Volts
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	90	180	300	600	900	Volts
Maximum Peak Working Voltage	V_{RWM}	90	180	300	600	900	Volts
Maximum Non-Repetitive Peak Voltage	V_{RSM}	100	200	350	650	1000	Volts
Maximum Repetive Peak Forward Surge Current	I_{FRM}	10.0					Amps
Peak Forward Surge Current Single Sine wave on rated load at $T_J=125^\circ\text{C}$	I_{FSM}	45.0					Amps
Rating for Fusing at $T_J=125^\circ\text{C}$ ($t < 100\text{ms}$)	I^2t	10.0					A ² sec
Minimum Series Resistor C-Load @ $V_{RMS} = \pm 10\%$	R_t	1.0	2.0	4.0	8.0	12.0	Ohms
Maximum Load Capacitance +50% -10%	CL	5000	2500	1000	500	200	μF
Maximum Instantaneous Forward Voltage Drop per leg at 0.9A	V_F	1.0					Volts
Maximum Reverse Current at rated Repetitive Peak Voltage per leg $T_A=25^\circ\text{C}$	I_R	10.0					μA
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	40.0					$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	-40 to +125					$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 to +150					$^\circ\text{C}$

NOTES:

1. Thermal Resistance from Junction to Ambient mounted on P.C Board 0.5" x 0.5" (13mm x 13mm) Copper pads.

RATINGS AND CHARACTERISTIC CURVES B40C 800DM THRU B380C 800DM

**FIG 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT
B40C 800DM...B125C 800DM**



**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT
B40C 800DM...B125C 800DM**

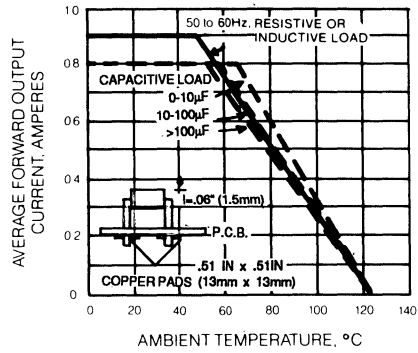
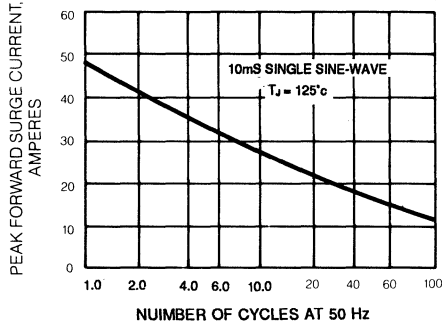
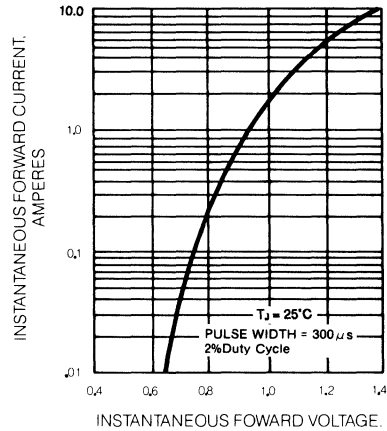


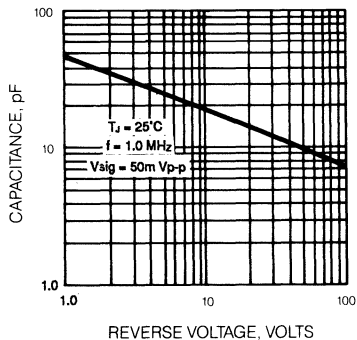
FIG. 3 — MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT



**FIG. 4 — TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT**



**FIG. 5 — TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT**



**FIG. 6 — TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT**

