



Glass Passivated Single-Phase Bridge Rectifier



Case Style DFM

Rectifier Reverse Voltage 65 and 600 V
Rectifier Forward Current 0.9 A

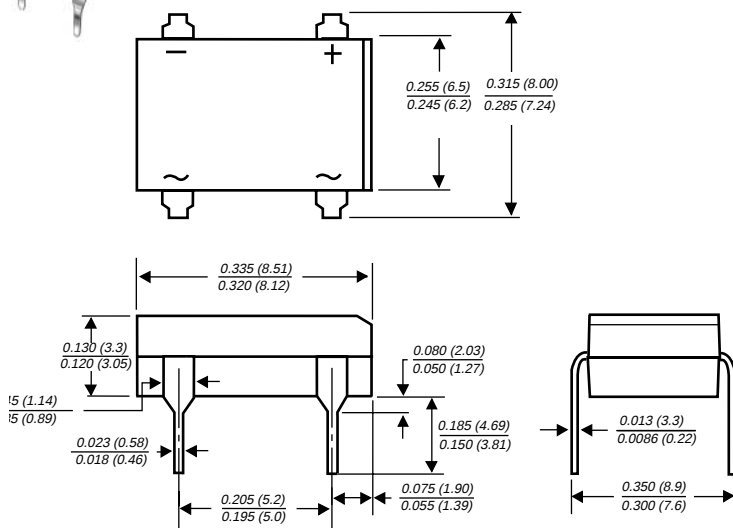
Features

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

Mechanical Data

Case: Molded plastic body over passivated junctions**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026**Polarity:** Polarity symbols as marked on body**Mounting Position:** Any**Weight:** 0.014 oz., 0.4 g**Packaging codes/options:**

45/50 EA. per Bulk Tube



Dimensions in inches and (millimeters)

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	B40 C800DM	B80 C800DM	B125 C800DM	B250 C800DM	B380 C800DM	Units
Maximum repetitive peak reverse voltage	V _{RRM}	65	125	200	400	600	V
Maximum RMS input voltage R + C-load	V _{RMS}	40	80	125	250	380	V
Maximum average forward output current for free air operation at T _A =45°C R + L-load C-load	I _{F(AV)}	0.9 0.8					A
Maximum DC blocking voltage	V _{DC}	65	125	200	400	600	V
Maximum peak working voltage	V _{RWM}	90	180	300	600	900	V
Maximum non-repetitive peak voltage	V _{RSM}	100	200	350	650	1000	V
Maximum repetitive peak forward surge current	I _{FRM}	10					A
Peak forward surge current single sine wave on rated load at T _J =125°C	I _{FSM}	45					A
Rating for fusing at T _J =125°C (t<100ms)	I ² t	10					A ² sec
Minimum series resistor C-load at V _{RMS} = ±10%	R _T	1.0	2.0	4.0	8.0	12	Ω
Maximum load capacitance +50% -10%	C _L	5000	2500	1000	500	200	μF
Typical thermal resistance per leg (1)	R _{θJA} R _{θJL}	40 15					°C/W
Operating junction temperature range	T _J	-40 to +125					°C
Storage temperature range	T _{STG}	-40 to +150					°C

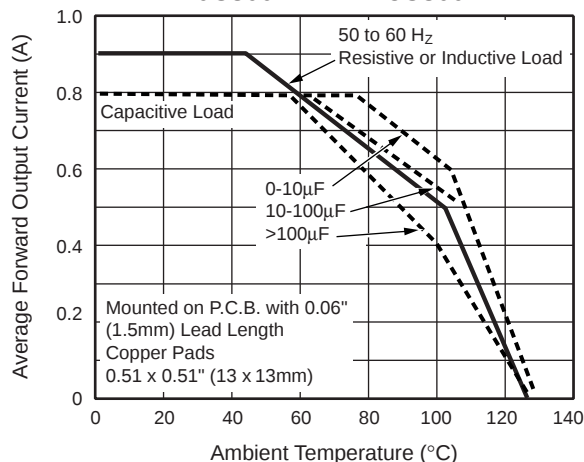
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	B40 C800DM	B80 C800DM	B125 C800DM	B250 C800DM	B380 C800DM	Units
Maximum instantaneous forward voltage drop per leg at 0.9A	V _F	1.0					V
Maximum reverse current at rated repetitive peak voltage per leg	I _R	10					μA

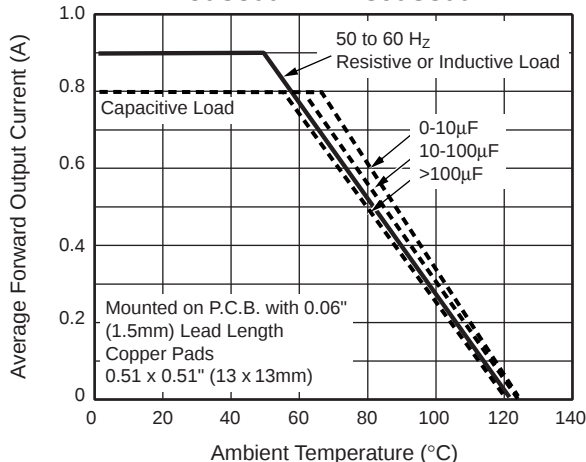
Notes: (1) Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.5 x 0.5" (13 x 13mm) copper pads

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

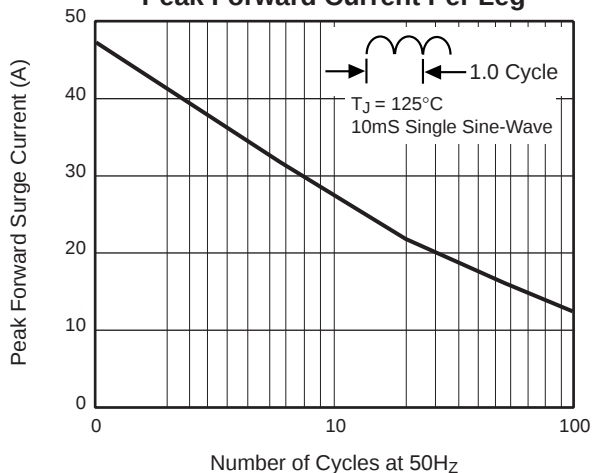
**Fig. 1 — Derating Curves
Output Rectified Current For
B40C800DM...B125C800DM**



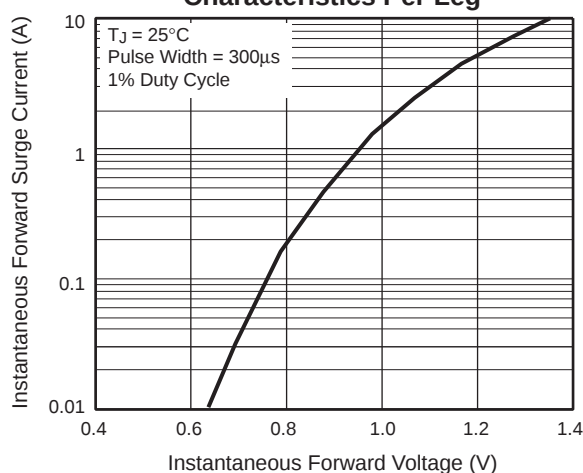
**Fig. 2 — Derating Curves
Output Rectified Current For
B250C800DM...B360C800DM**



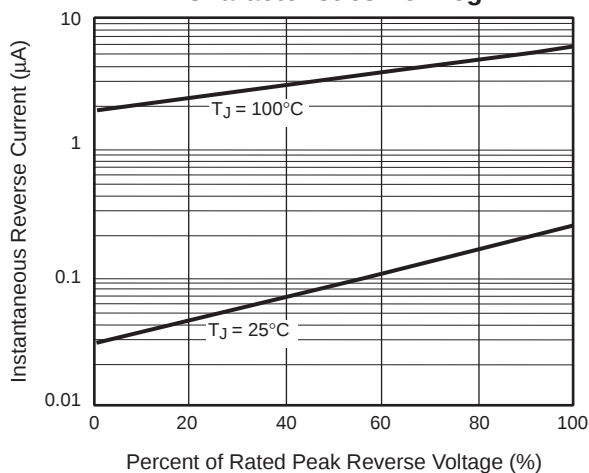
**Fig. 3 — Maximum Non-Repetitive
Peak Forward Current Per Leg**



**Fig. 4 — Typical Forward
Characteristics Per Leg**



**Fig. 5 — Typical Reverse Leakage
Characteristics Per Leg**



**Fig. 6 — Typical Junction Capacitance
Per Leg**

