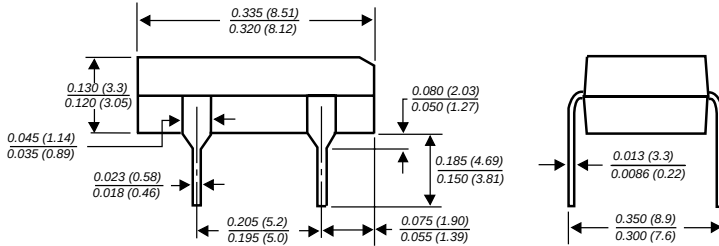
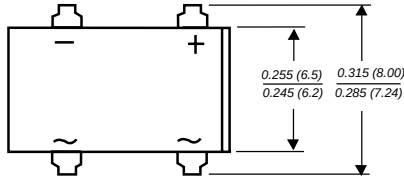




Case Style DFM



Dimensions in inches and (millimeters)

Glass Passivated Single-Phase Bridge Rectifier

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: 0.04 ounce, 1.0 gram

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	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 $T_A=45^\circ\text{C}$ 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 $T_J=125^\circ\text{C}$	I_{FSM}	45					A
Rating for fusing at $T_J=125^\circ\text{C}$ ($t<100\text{ms}$)	I^2t	10					A ² sec
Minimum series resistor C-load at $V_{RMS} = \pm 10\%$	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 (NOTE 1)	$R_{\theta JA}$ $R_{\theta JL}$	40 15					$^\circ\text{C/W}$
Operating junction temperature range	T_J	-40 to +125					$^\circ\text{C}$
Storage temperature range	T_{STG}	-40 to +150					$^\circ\text{C}$

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	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 CURVE OUTPUT RECTIFIED CURRENT FOR B40C800DM...B125C800DM

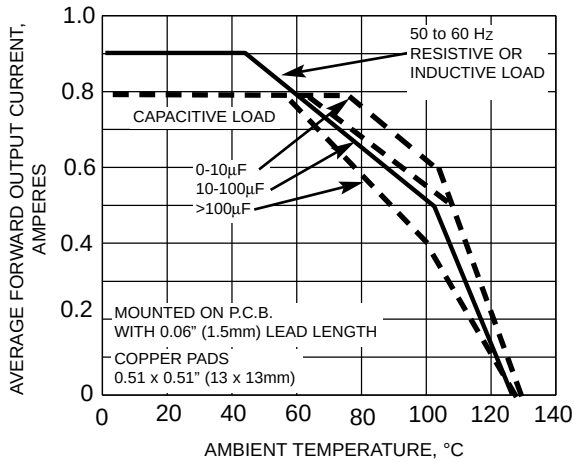


FIG. 2 - DERATING CURVE OUTPUT RECTIFIED CURRENT FOR B250C800DM...B380C800DM

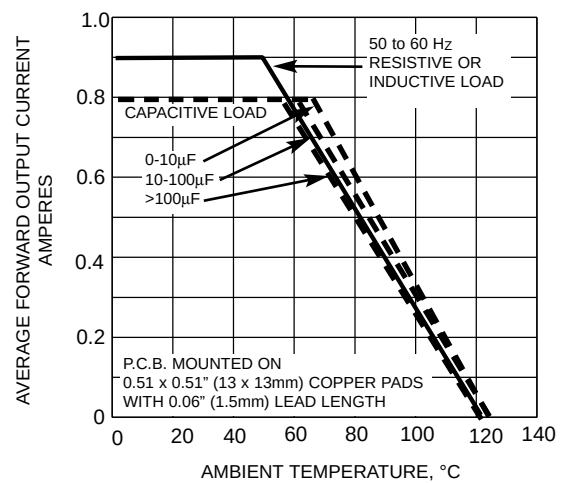


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD CURRENT PER LEG

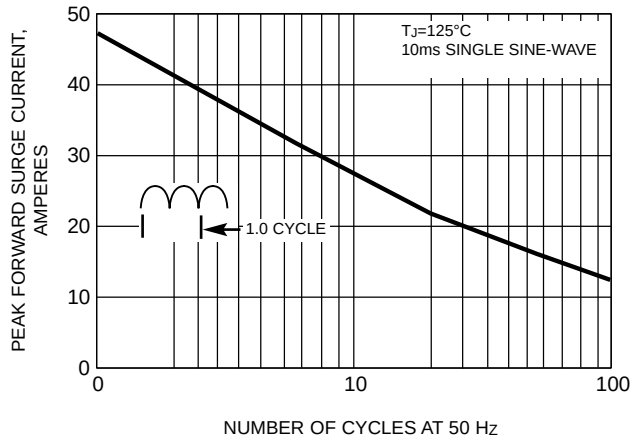


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS PER LEG

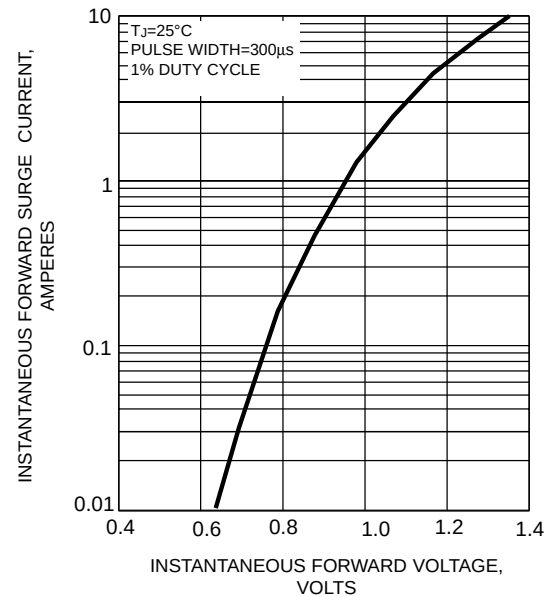


FIG. 5 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

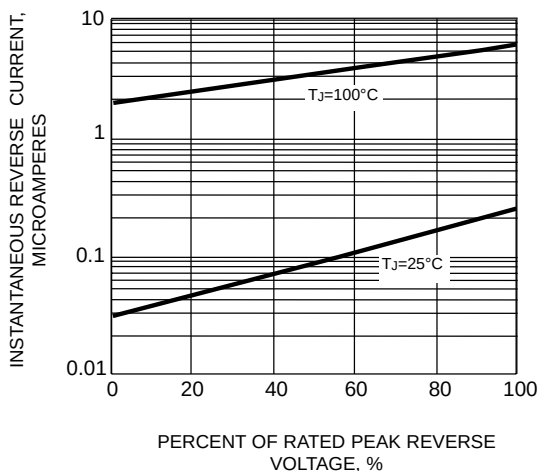


FIG. 6 - TYPICAL JUNCTION CAPACITANCE PER LEG

