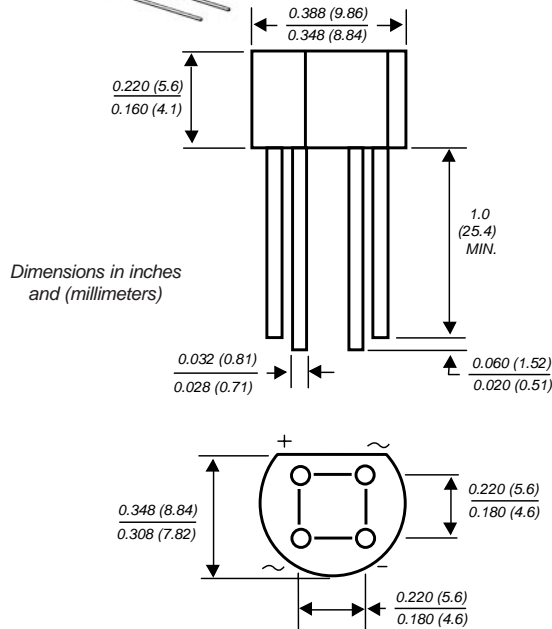


Glass Passivated Single-Phase Bridge Rectifier

Case Style WOG



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
- High case dielectric strength
- Typical I_R less than $0.1\mu A$
- High overload surge current
- Ideal for printed circuit boards
- High temperature soldering guaranteed: $260^\circ C/10$ seconds, 0.375 (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

Case: Molded plastic body over passivated junctions
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Mounting Position: Any
Weight: 0.04 oz., 1.1 g
Packaging codes/options:
 1/100 EA. per Bulk Bag

Maximum Ratings & Thermal Characteristics

Ratings at $25^\circ C$ ambient temperature unless otherwise specified.

Parameter	Symbols	B40 C800G	B80 C800G	B125 C800G	B250 C800G	B380 C800G	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 $T_A=45^\circ C$ R + L-load C-Load	$I_{F(AV)}$	0.9 0.8					A
Maximum non-repetitive peak voltage	V_{RSM}	100	200	350	600	1000	V
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 repetitive peak forward surge current	I_{FRM}	10					A
Peak forward surge current single sine wave on rated load at $T_J=125^\circ C$	I_{FSM}	45					A
Rating for fusing at $T_J=125^\circ C$ ($t < 100ms$)	I^2t	10					A^2sec
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 ⁽¹⁾	$R_{\theta JA}$ $R_{\theta JL}$	36 11					$^\circ C/W$
Operating junction temperature range	T_J	-40 to +125					$^\circ C$
Storage temperature range	T_{STG}	-40 to +150					$^\circ C$

Electrical Characteristics

Ratings at $25^\circ C$ ambient temperature unless otherwise specified.

Parameter	Symbols	B40 C800G	B80 C800G	B125 C800G	B250 C800G	B380 C800G	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 mounted on P.C.B. at $0.375"$ (9.5mm) lead lengths with $0.2 \times 0.2"$ (5.5 x 5.5mm) copper pads.

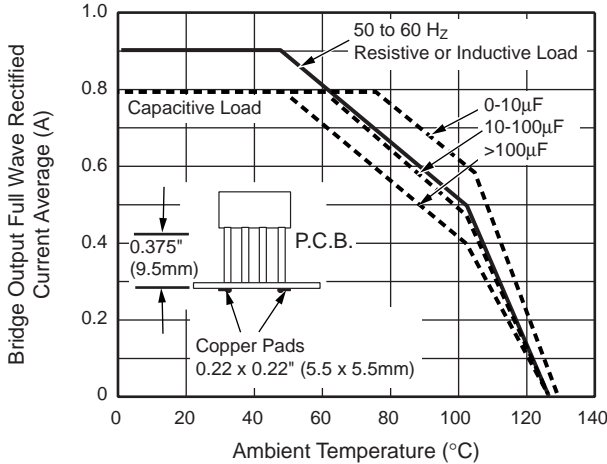
B40C800G thru B380C800G



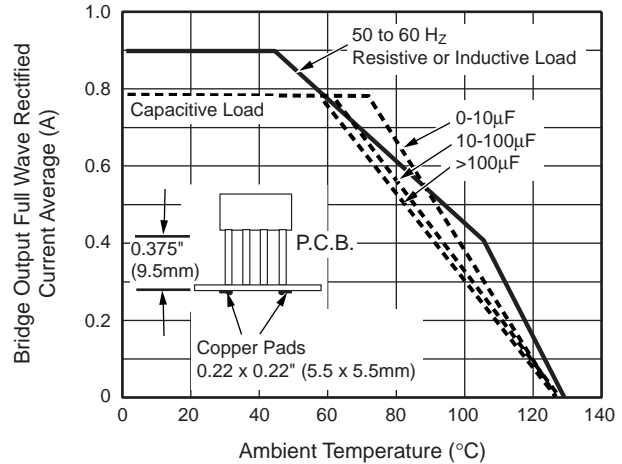
Vishay Semiconductors
formerly General Semiconductor

Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

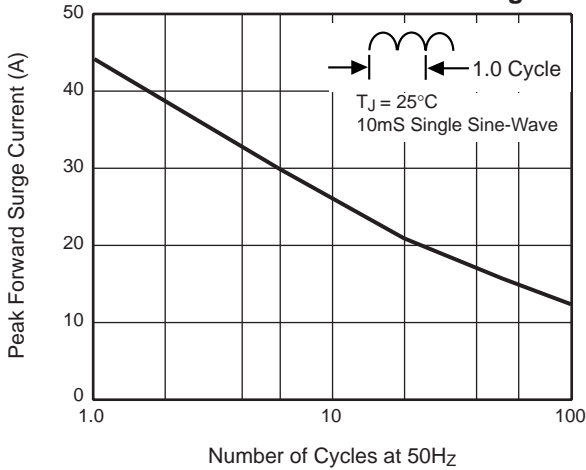
**Fig. 1 — Derating Curves
Output Rectified Current For
B40C800G...B125C800G**



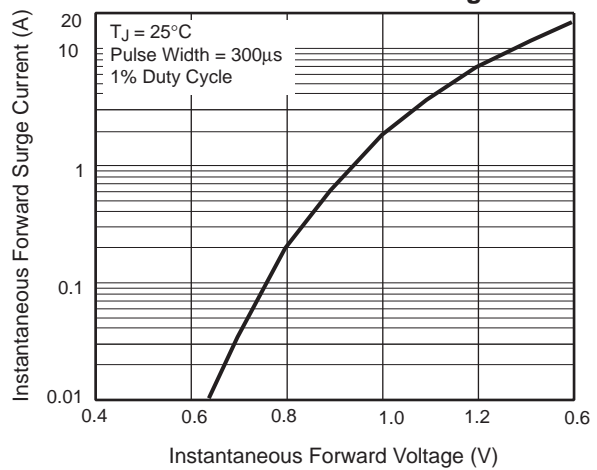
**Fig. 2 — Derating Curves
Output Rectified Current For
B250C800G...B380C800G**



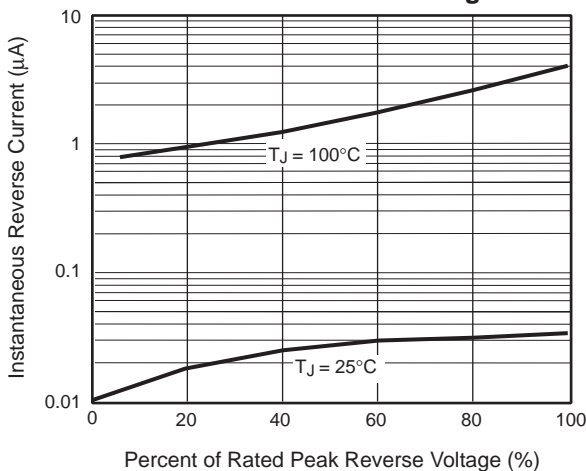
**Fig. 3 — Maximum Non-Repetitive
Peak Forward Current Per Leg**



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



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



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

