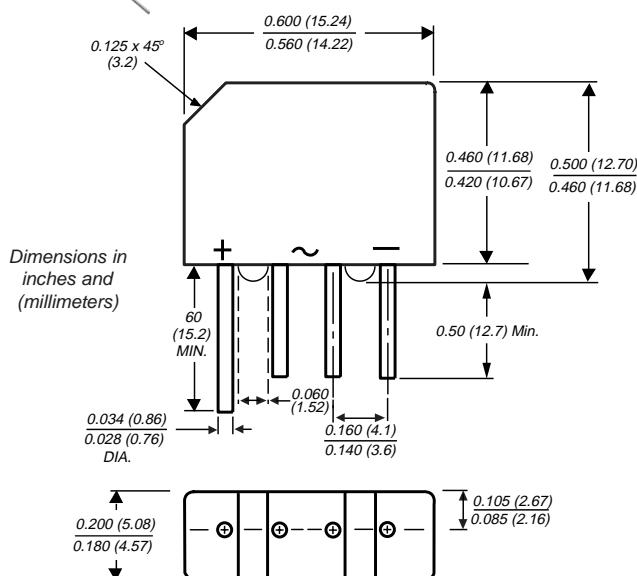




Glass Passivated Single-Phase Bridge Rectifiers

Rev. Voltage 50 to 1000V
Forward Current 1.5A

Case Style KBPM



Polarity shown on front side of case: positive lead by beveled corner

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under Recognized Component Index, file number E54214
- Glass passivated chip junctions
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs. (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 marked on case**Mounting Position:** Any**Weight:** 0.06 oz., 1.7 g**Packaging codes/options:**

1/600 EA. per Bulk Tray Stack

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symb.	KBP	KBP	KBP	KBP	KBP	KBP	KBP	Unit
		005M	01M	02M	04M	06M	08M	10M	
3N246	3N247	3N248	3N249	3N250	3N251	3N252			
* Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
* Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
* Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Max. average forward output rectified current at T _A = 40°C	I _{F(AV)}					1.5			A
* Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) T _J = 150°C	I _{FSM}				50	30			A
Rating for fusing (t < 8.3ms)	I ² t			10					A ² sec
Typical thermal resistance per leg ⁽¹⁾	R _{θJA} R _{θJL}			40	13				°C/W
* Operating junction and storage temperature range	T _J , T _{STG}			−55 to +150					°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

* Max. instantaneous at forward voltage drop at	1.0A per leg 1.57A per leg	VF	1.0 1.3	V
* Maximum DC reverse current at rated DC blocking voltage per leg	T _A = 25°C T _A = 125°C	I _R	5.0 500	µA
Typical junction capacitance per leg at 4.0V, 1MHz	C _J		15	pF

Note: (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with, 0.47 x 0.47" (12 x 12mm) copper pads

* JEDEC registered values

Vishay Semiconductors
formerly General Semiconductor

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

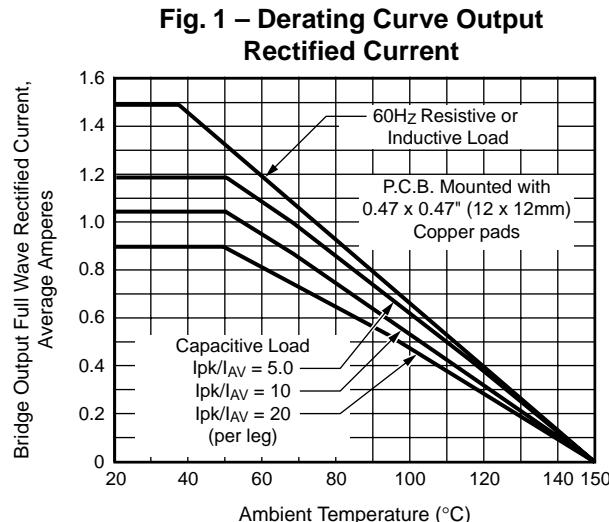


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

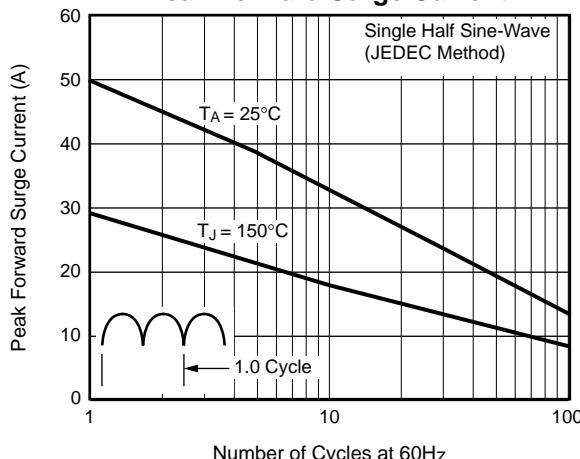


Fig. 3 – Typical Forward Characteristics Per Leg

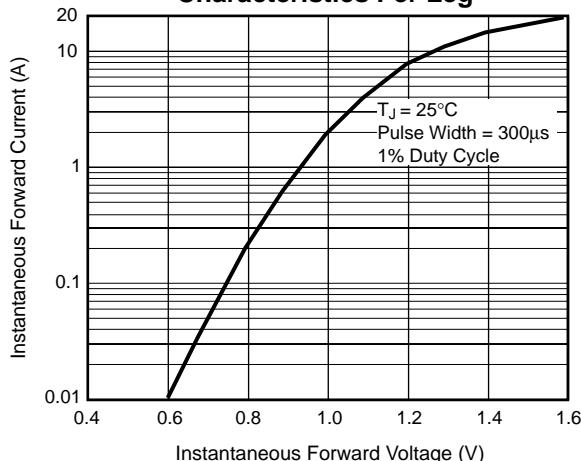


Fig. 4 – Typical Reverse Leakage Characteristics Per Leg

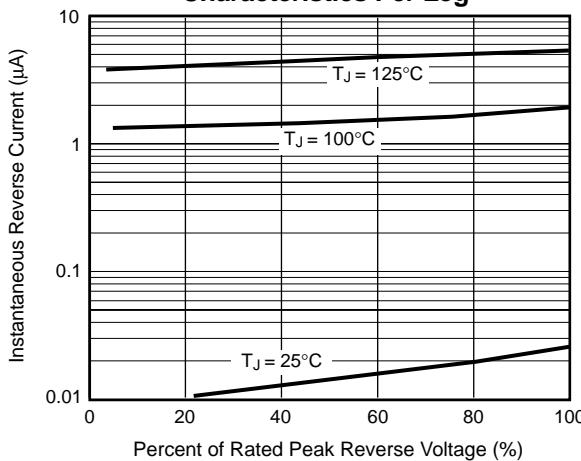


Fig. 5 – Typical Junction Capacitance Per Leg

