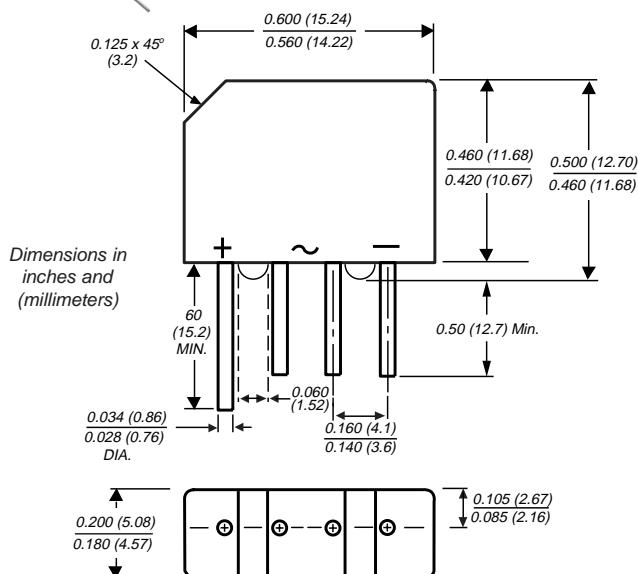




Glass Passivated Single-Phase Bridge Rectifier

Case Style KBPM

Reverse Voltage 50 to 1000 V
Forward Current 2.0 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under Recognized Component Index, file number E54214
- Typical IR less than 0.1µA
- High case dielectric strength
- 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	Symbols	2KBP 005M	2KBP 01M	2KBP 02M	2KBP 04M	2KBP 06M	2KBP 08M	2KBP 10M	Units
		3N253	3N254	3N255	3N256	3N257	3N258	3N259	
* 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
Maximum average forward output rectified current at T _A =55°C	I _{F(AV)}				2.0				A
* Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) T _J =150°C	I _{FSM}				60				A
Rating for fusing (t < 8.3ms)	I ² t			15					A ² sec
Typical thermal resistance per leg ⁽¹⁾	R _{θJA} R _{θJL}			30					°C/W
* Operating junction and storage temperature range	T _J , T _{STG}			-55 to +165					°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

* Maximum instantaneous forward voltage drop per leg at 3.14A	V _F	1.1	V
* Maximum DC reverse current T _A =25°C at rated DC blocking voltage per leg T _A =125°C	I _R	5.0 500	µA
Typical junction capacitance per leg at 4.0V, 1MHz	C _J	25	pF

Notes: (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)

