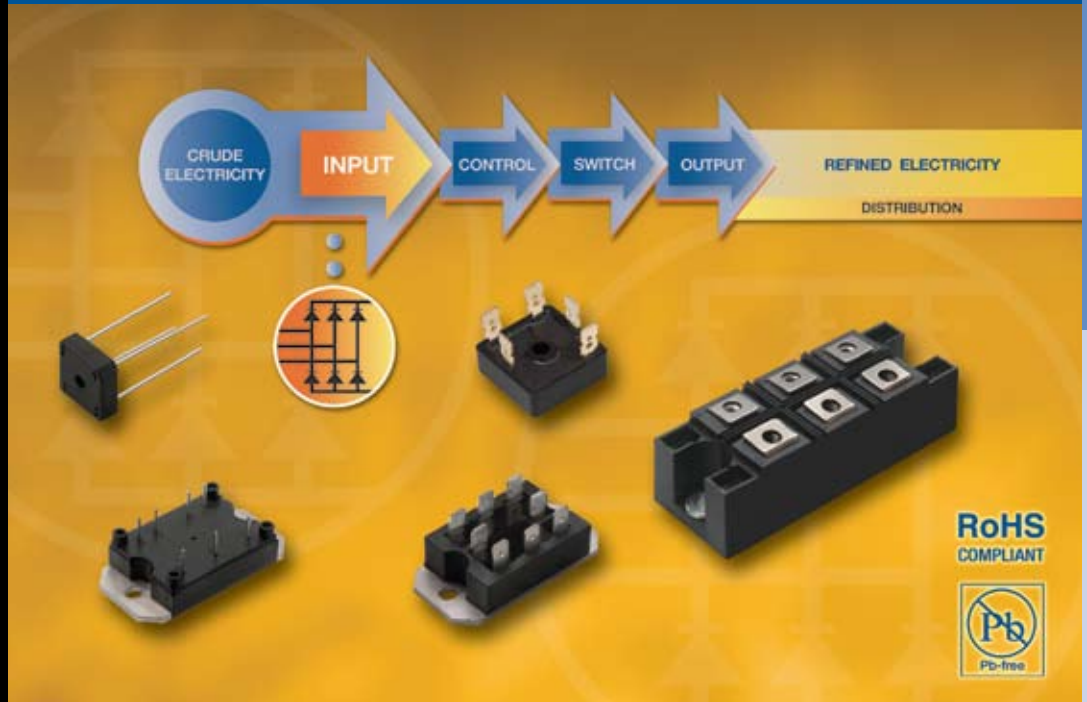




VISHAY INTERTECHNOLOGY, INC.



## BRIDGE MODULES

- MTK
- MTP
- Pace-Pak
- MT
- MB
- GBPC
- KBPC
- KAB
- KBB
- KBP



# BRIDGE MODULES

Versatile and high-efficiency bridge modules from Vishay Intertechnology feature industry-standard outlines with a choice of single-phase and three-phase rectifying bridges. The modules are the ideal choice for input rectification applications at either low or high voltages, with the electrical isolation between the baseplate and the active semiconductors providing a key advantage over discrete components. External electrical connections are provided with a choice of different terminal options, including fast-on, solderable pins, and bolt down.

Vishay high-power bridge modules are RoHS-compliant and meet industry standards for safety, including UL approval. The devices are recognized throughout the world for their ruggedness, high reliability, and consistency of mechanical specifications and electrical characteristics.

## Features

- Wide range of package styles and configurations with diode and/or thyristor technologies
- Direct mounting on heatsink
- Compact case styles for screw, solderable pin, and fast-on plug terminations
- High isolation voltage
- RoHS-compliant
- Low thermal resistance
- UL approved
- High surge current

## Options

- Customizable for specific application needs
- Temperature sensor available in some package styles

## Applications

- Single- and three-phase input rectification

For technical support, contact:  
ind-modules@vishay.com

For further information:  
<http://www.vishay.com/ref/bridge-modules>

Package Type, Bridges	Max. Dim., LWH (mm)	Pin-out	Number of Connectors	Available Circuit Configurations	Voltage Range (V)	Current Ratings at 25 °C (A)	Part Number Series	Silicon Technology
MTK	94 x 35 x 30	Screwable	Up to 14	3-Phase Bridge	400–1600	60–200	..MT..K	Diode
				3-Phase Bridge	1200	90	90MTF..K..	Fast Diode
				3-Phase Bridge half/fully controlled	800–1600	55–110	..MT..K	SCR-Diode
MTP	63.5 x 33 x 16	Solderable Pins	Up to 12	3-Phase Bridge	1600	40–100	..MT..P	SCR
				Customized configuration				Diode
Pace-Pak	63.5 x 32.5 x 15.5	Fast-on, Solderable Pins	Up to 8	1-Phase Bridge	400–1200	25–40	P100..–P400..	SCR
				AC Switch				Diode
				Doubler				
				Customized Configuration				
MT	28.5 x 28.5 x 10	Fast-on, Solderable Pins	5	3-Phase Bridge	100–1600	25–35	26MT..–36MT..	Diode
MB	28.5 x 28.5 x 10	Fast-on, Solderable Pins	4	1-Phase Bridge	200–1600	25–35	26MB..–36MB..	Diode
GBPC	28.6 x 28.6 x 7.7	Fast-on, Solderable Pins	4	1-Phase Bridge	200–1200	25–35	GBPC25..–GBPC35..	Diode
KBPC	15.2 x 15.2 x 4.8	Solderable Pins	4	1-Phase Bridge	50–1000	3–6	KBPC1.. - KBPC6.. KBPC6.. - KBPC8..	Diode
						6–8		
KAB	9.2 x 9.2 x 9.8	Solderable Pins	4	1-Phase Bridge	100–1000	1.2	1KAB-E..	Diode
KBB	17.5 x 15 x 6.5	Solderable Pins	4	1-Phase Bridge	100–1000	1.9	2KBB...	Diode
KBP	17.5 x 15 x 6.5	Solderable Pins	4	1-Phase Bridge	50–1000	2	2KBP..	Diode

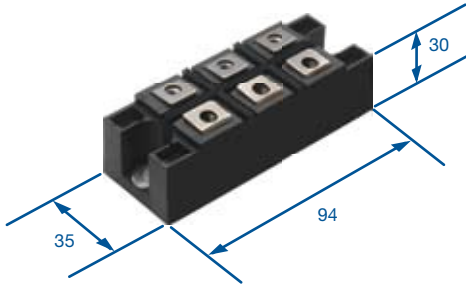
Configuration	Voltage (V)	Current Rating (A)	Recovery	MTK Bridge	MTP Bridge	Pace-Pak Bridge	MT Bridge	
								
Half Bridge, Fully Controlled	400-1600	25	Standard			P17..		
		40				P47..		
		56						
Half Bridge, Positive Controlled	400-1600	25	Standard			P16..		
		40				P46..		
		56						
		70						
Single-Phase Diode Bridges	800-1200	15	Standard					
		25						
		35						
	1200-1600	15	Standard					
		25						
	50-1000		1	Standard				
			2					
			3					
4								
Single-Phase Negative-Controlled Bridges	400-1600	25	Standard			P11..		
		30				P41..		
		40						
Single-Phase Positive-Controlled Bridges	400-1600	25	Standard			P10..		
		40				P40..		
Single-Phase Fully Controlled Bridges	400-1600	25	Standard			P13..		
		40				P43..		
Three-Phase Diode Bridges	Up to 1600	25	Standard				26MT..	
		35					36MT..	
		45			40MT..P..			
		60	Standard Fast	60MT..K..				
		70		70MT..K..	70MT..P..			
		90		90MT..K..				
	Up to 400	90	Standard	90MTF120KPF..				
		100			100MT..P..			
		110		110MT..K..				
		130		130MT..K..				
Three-Phase Negative-Controlled Bridges	400-1600	160	Standard	160MT..K..				
		200		200MT..K..				
		55		51MT..K..				
Three-Phase Positive-Controlled Bridges	400-1600	90	Standard	91MT..K..				
		110		111MT..K..				
		45			42MT..P..			
Three-Phase Fully Controlled Bridges	400-1600	55	Standard	52MT..K..	55MT..P..			
		90		92MT..K..				
		110		112MT..K..	105MT..P..			
		55		53MT..K..				
Three-Phase Fully Controlled Bridges	400-1600	90	Standard	93MT..K..				
		110		113MT..K..				

Key: Released In Development

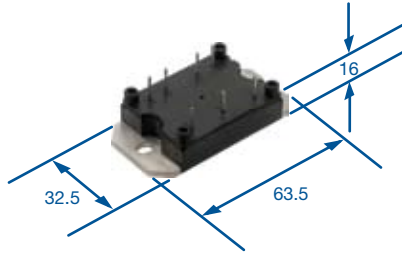




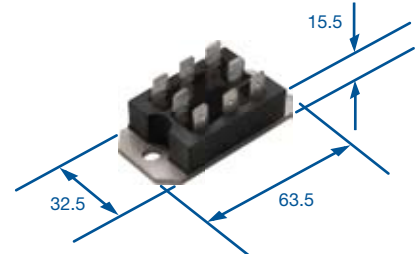
## Dimensions in Millimeters



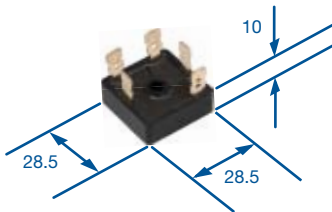
MTK



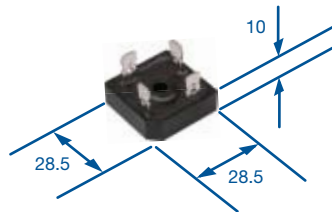
MTP



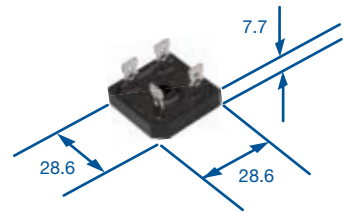
Pace-Pak



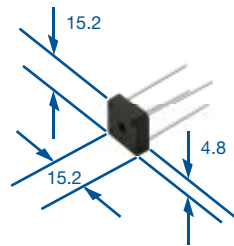
MT



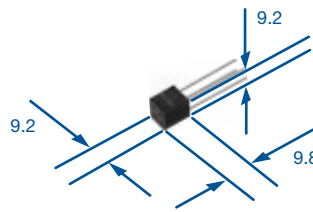
MB



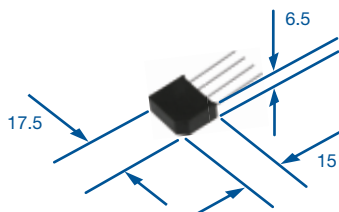
GBPC



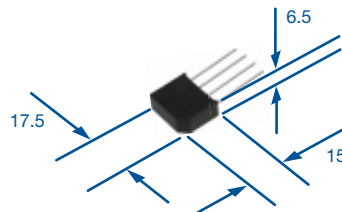
KBPC



KAB



KBB



KBP

**DISCLAIMER** All product specifications and data are subject to change without notice. Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product. Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications. Product names and markings noted herein may be trademarks of their respective owners.

**SEMICONDUCTORS:**

Rectifiers • High-Power Diodes and Thyristors • Small-Signal Diodes • Zener and Suppressor Diodes • FETs • Optoelectronics • ICs • Modules

**PASSIVE COMPONENTS:**

Resistive Products • Magnetics • Capacitors • Strain Gage Transducers and Stress Analysis Systems



One of the World's Largest Manufacturers of  
**Discrete Semiconductors and Passive Components**

**WORLDWIDE SALES CONTACTS**

---

---

---



**6121 Baker Road,  
Suite 108  
Minnetonka, MN 55345**

**Phone (952) 933-6190  
Fax (952) 933-6223  
1-800-274-4284**

**[www.chtechnology.com](http://www.chtechnology.com)**