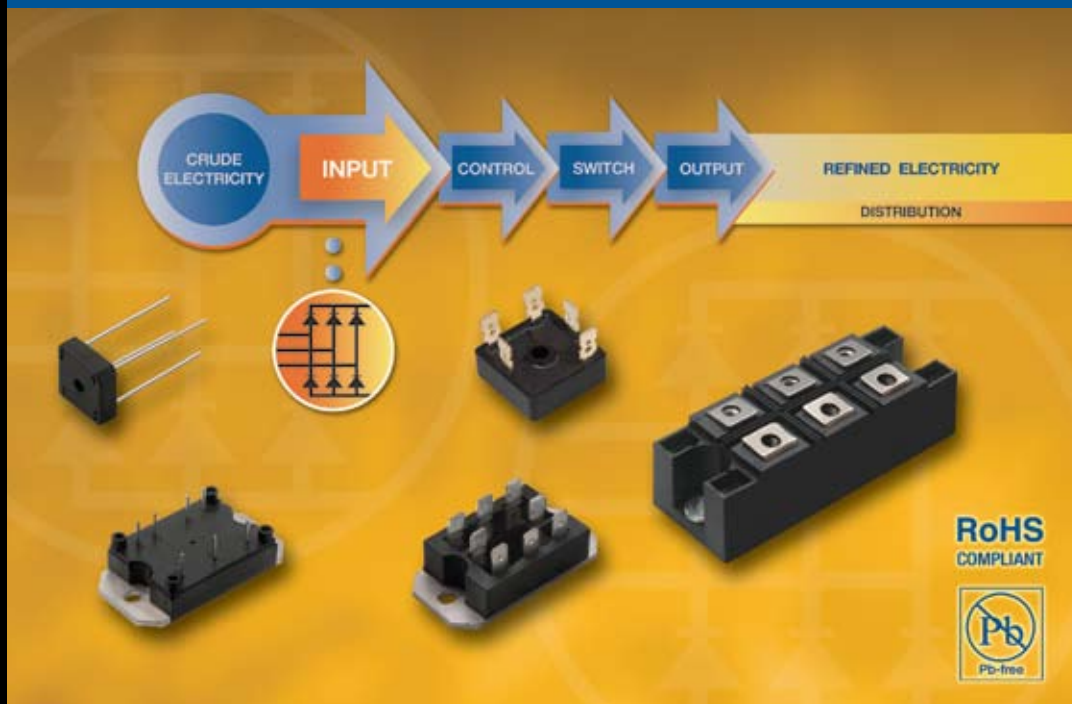




VISHAY INTERTECHNOLOGY, INC.



## 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



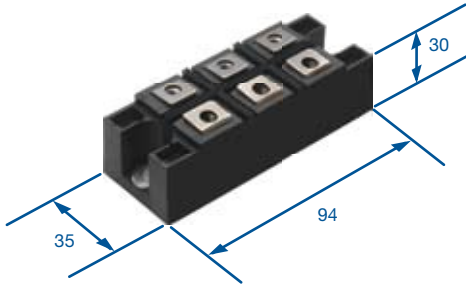
Configuration	Voltage (V)	Current Rating (A)	Recovery	MTK Bridge	MTP Bridge	Pace-Pak Bridge	MT Bridge	
								
Half Bridge, Fully Controlled	400-1600	25	Standard			P17..		
		40				P47..		
		56						
Half Bridge, Positive Controlled	400-1600	25	Standard			P16..		
		40				P46..		
		56						
		70						
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

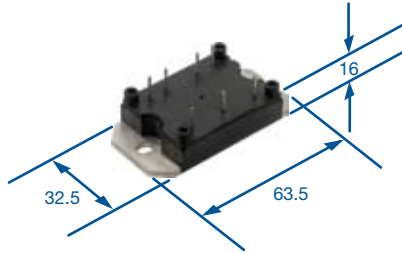




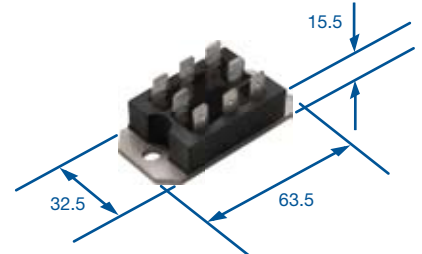
## Dimensions in Millimeters



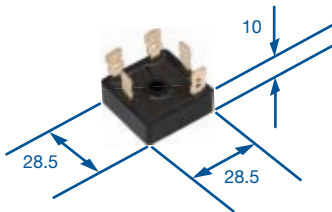
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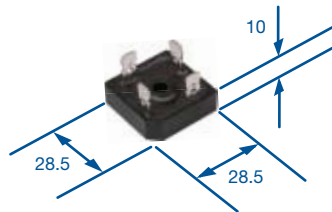
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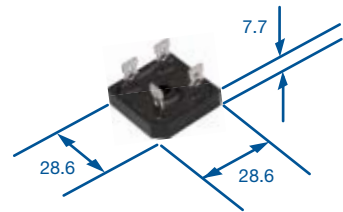
Pace-Pak



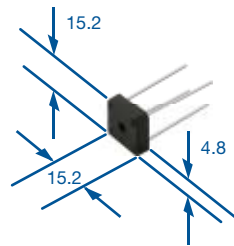
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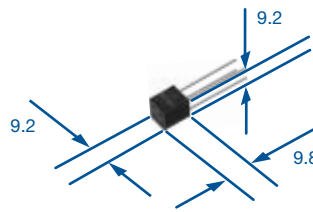
MB



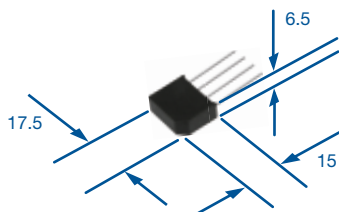
GBPC



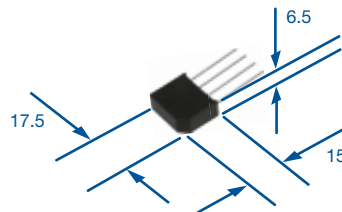
KBPC



KAB



KBB



KBP

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## SEMICONDUCTORS:

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

## PASSIVE COMPONENTS:

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