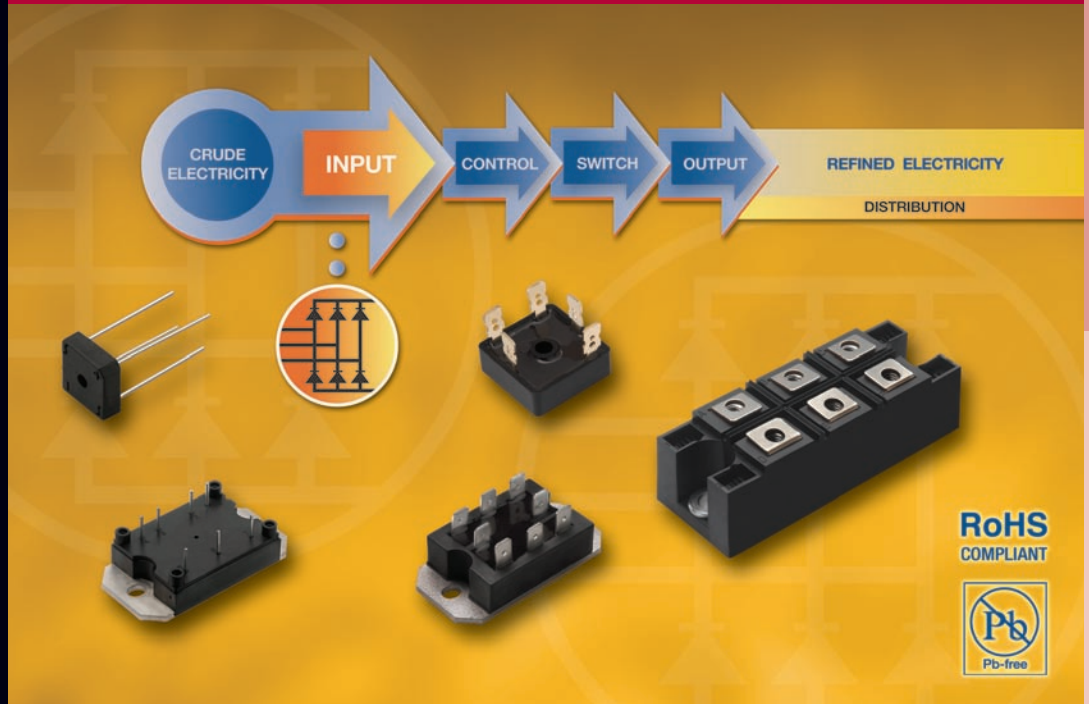




BRIDGE MODULES



MTK
MTP
Pace-Pak
MT
MB

GBPC
KBPC
KAB
KBB
KBP

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: up to 4000 V
- RoHS-compliant
- Low thermal resistance
- UL approved
- High-surge current: up to 1880 V

Options

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

Applications

- Single- and three-phase input rectification

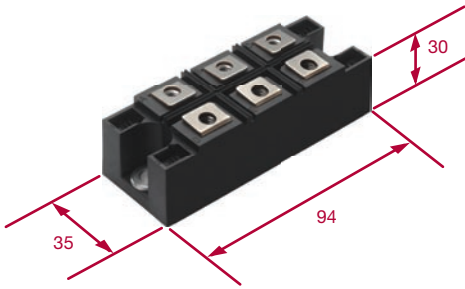
For technical support, contact:
indmodules@vishay.com

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

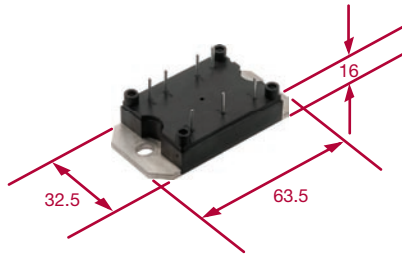
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| Package Type, Bridges | Max. Dim., LWH (mm) | Pin-out | Number of Connectors | Available Circuit Configurations | Voltage Range (V) | Current Ratings at 25 °C (A) | Part Number Series | Silicon Technology |
|-----------------------|---------------------|--------------------------|----------------------|-----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

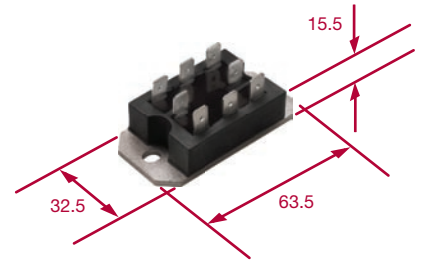
Dimensions in Millimeters



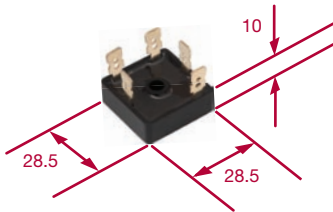
MTK



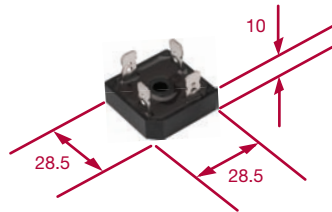
MTP



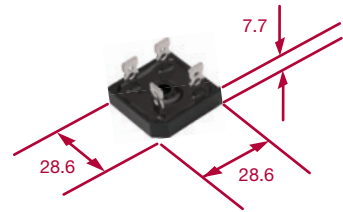
Pace-Pak



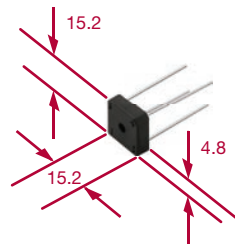
MT



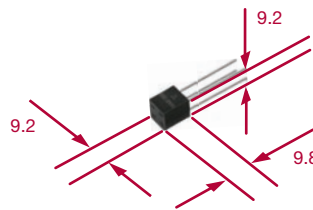
MB



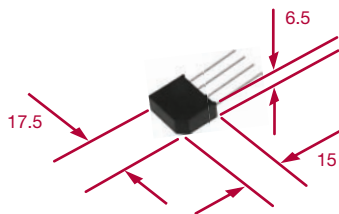
GBPC



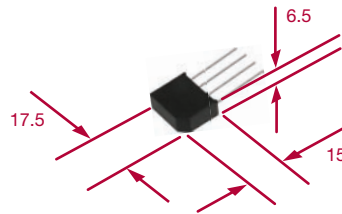
KBPC



KAB



KBB








KBP

Bridge Modules



Vishay


Key: Released In Development

| Configuration | Voltage (V) | Current Rating (A) | Recovery | MTK Bridge | MTP Bridge | * Pace-Pak Bridge | MT Bridge | MB Bridge | | | | | | | |
|--|---|--------------------|----------|---|---|--|---|---|---------|----------|--|--|--|--|--|
| Half Bridge, Fully Controlled | 400-1600 | 25 | Standard |  |  |  |  |  | | | | | | | |
| | | 40 | | | | | | | * P17.. | | | | | | |
| | | 56 | | | | | | | * P47.. | | | | | | |
| Half Bridge, Positive Controlled | 400-1600 | 25 | Standard | | | | | | | | | | | | |
| | | 40 | | | | | | | * P16.. | | | | | | |
| | | 56 | | | | | | | * P46.. | | | | | | |
| | | 70 | | | | | | | | | | | | | |
| Single-Phase Diode Bridges | 800-1200 | 15 | Standard | | | | | | | | | | | | |
| | | 25 | | | | | | | | | | | | | |
| | | 35 | | | | | | | | | | | | | |
| | 1200-1600 | 15 | Standard | | | | | | 26MB.. | | | | | | |
| | | 25 | | | | | | | | 36MB.. | | | | | |
| | 50-1000 | | 1 | Standard | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| Single-Phase Negative-Controlled Bridges | 400-1600 | 25 | Standard | | | | | | | | | | | | |
| | | 30 | | | | | | | * P11.. | | | | | | |
| | | 40 | | | | | | | * P41.. | | | | | | |
| Single-Phase Positive-Controlled Bridges | 400-1600 | 25 | Standard | | | | | | | | | | | | |
| | | 40 | | | | | | | * P10.. | | | | | | |
| Single-Phase Fully Controlled Bridges | 400-1600 | 25 | Standard | | | | | | | | | | | | |
| | | 40 | | | | | | | * P40.. | | | | | | |
| Three-Phase Diode Bridges | Up to 1600 | 25 | Standard | | | | | | | | | | | | |
| | | 35 | | | | | | | | | | | | | |
| | | 45 | | | | | | | | | | | | | |
| | | 60 | | | | | | | | | | | | | |
| | | 70 | | | | | | | | | | | | | |
| | | 90 | | | | | | | | | | | | | |
| | Up to 400 | 200 | Standard | | | | | | 26MT.. | | | | | | |
| | | 250 | | | | | | | 36MT.. | | | | | | |
| | Three-Phase Negative-Controlled Bridges | 400-1600 | 55 | Standard | | | | | | | | | | | |
| | | | 90 | | | | | | | | | | | | |
| | | | 110 | | | | | | | | | | | | |
| | | | 45 | | | | | | | Standard | | | | | |
| 55 | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | |
| Three-Phase Fully Controlled Bridges | 400-1600 | 55 | Standard | | | | | | | | | | | | |
| | | 90 | | | | | | | | | | | | | |
| | | 110 | | | | | | | | | | | | | |

* Datasheet available upon request, please contact indmodules@vishay.com



Key: Released In Development

| Configuration | Voltage (V) | Current Rating (A) | Recovery | GBPC Bridge | KBPC Bridge | KAB Bridge | KBB Bridge | KBP Bridge |
|--|-------------|--------------------|---------------|---|---|--|---|---|
| | | | |  |  |  |  |  |
| Half Bridge, Fully Controlled | 400-1600 | 25 | Standard | | | | | |
| | | 40 | | | | | | |
| | | 56 | | | | | | |
| Half Bridge, Positive Controlled | 400-1600 | 25 | Standard | | | | | |
| | | 40 | | | | | | |
| | | 56 | | | | | | |
| | | 70 | | | | | | |
| Single-Phase Diode Bridges | 800-1200 | 15 | Standard | | | | | |
| | | 25 | | | | | | |
| | | 35 | | | | | | |
| | 1200-1600 | 15 | Standard | | | | | |
| | | 25 | | | | | | |
| | 50-1000 | 1 | Standard | | | | | |
| | | 2 | | | | | | |
| | | 3 | | | | 1KAB-E.. | | |
| 4 | | | | | | 2KBB.. | 2KBP.. | |
| 5 | | | | | KBPC1.. | | | |
| Single-Phase Negative-Controlled Bridges | 400-1600 | 25 | Standard | | KBPC3.. | | | |
| | | 30 | | | KBPC8.. | | | |
| | | 40 | | | | | | |
| Single-Phase Positive-Controlled Bridges | 400-1600 | 25 | Standard | | | | | |
| | | 40 | | | | | | |
| Single-Phase Fully Controlled Bridges | 400-1600 | 25 | Standard | | | | | |
| | | 40 | | | | | | |
| Three-Phase Diode Bridges | Up to 1600 | 25 | Standard | | | | | |
| | | 35 | | | | | | |
| | | 45 | | | | | | |
| | | 60 | | | | | | |
| | | 70 | | | | | | |
| | Up to 400 | 90 | Standard Fast | | | | | |
| | | 100 | Standard | | | | | |
| | | 110 | | | | | | |
| | | 130 | | | | | | |
| | | 160 | | | | | | |
| Three-Phase Negative-Controlled Bridges | 400-1600 | 55 | Standard | | | | | |
| | | 90 | | | | | | |
| | | 110 | | | | | | |
| Three-Phase Positive-Controlled Bridges | 400-1600 | 45 | Standard | | | | | |
| | | 55 | | | | | | |
| | | 90 | | | | | | |
| | | 110 | | | | | | |
| Three-Phase Fully Controlled Bridges | 400-1600 | 55 | Standard | | | | | |
| | | 90 | | | | | | |
| | | 110 | | | | | | |

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