Smart Node
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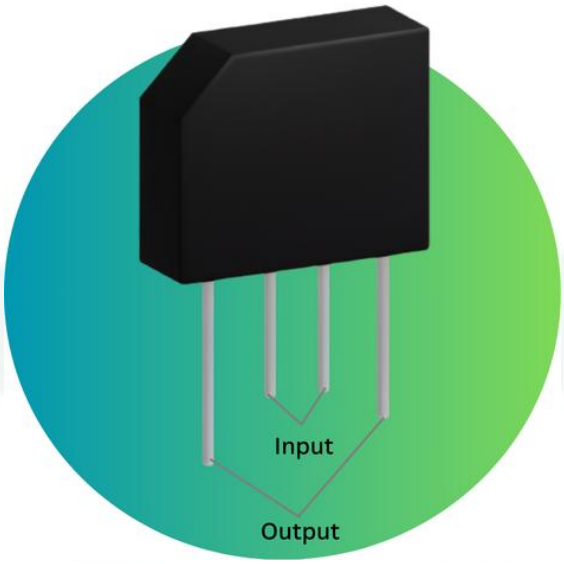
BRIDGE RECTIFIER

ACC.BR.1



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Product Description

Product Overview :-

Model Number: ACC.BR.1

Description: Bridge Rectifiers are circuits that turn an alternating current (AC) into a direct current (DC). A bridge rectifier is a type of full-wave rectifier that uses four diodes arranged in a bridge configuration to convert AC to DC, often used with a standard transformer.

Product Feature:-

- Full-wave rectified output with continuous DC pulses.
- Suitable for single-phase, half-wave, 60Hz AC input.
- For capacitive loads, current should be derated by 20%.

Technical Details

Technical Specification:-

Maximum RMS Voltage,	420 Volts
Maximum DC Blocking Voltage	600 Volts
Maximum Average Forward Rectified Output Current, at TA=50°C	2A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	60A
Rating for Fusing (t<8.3mS)	$10A^2S$
Maximum Instantaneous Forward Voltage Drop per Bridge element at 1.0 A	1 Volts
Maximum DC Reverse Current at Rated, TA = 25°C	10µA
DC Blocking Voltage per element, TA = 100°C	0.5mA
Typical Junction Resistance per element	20 Volts
Typical Thermal Resistance per element	28°C/W
Operating and Storage Temperature Range	-55°C to +150°C

Installation

Wiring Diagram:-