# Glass Passivated 3 Phase Bridge Rectifiers VRRM 50 Volts to 1600 Volts, 25A



RoHS

**Compliant** 



#### **Features**

· Low forward voltage drop

· High current capability

· High reliability

Case: Epoxy case with heat sink

Polarity: Symbol marked on body

· Bolt pass through the mounting hole of body then fix to heat sink

• Mounting torque: 2 N.m

· Lead free

## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

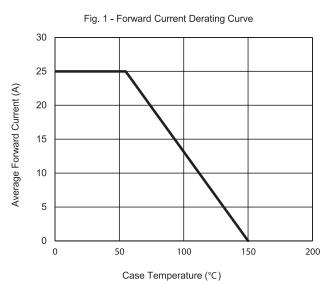
Characteristics	Symbol	MP001014	MP001015	MP001016	MP001017	MP001018	MP001019	MP001020	MP001021	MP001022	MP001023	Unit
Max. Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	1200	1400	1600	
Max. RMS Voltage	VRMS	35	70	140	280	420	560	700	840	980	1120	]
Max. DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	1200	1400	1600	\ \
Peak Non-Repetitive Reverse Voltage	VRSM	75	150	275	500	725	900	1100	1300	1500	1700	
Max. Average Forward Rectified Current @ Tc = 55°C	l(AV)		25									
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Su- perimposed on Rated Load (JEDEC Method)	IFSM		320									A
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	l <sup>2</sup> t		424									A <sup>2</sup> s
Peak Forward Voltage per Diode at 12.5A DC	VF		1.1									V
Max. DC Reverse Current at Rated @T <sub>J</sub> = 25°C	lr.	5										μА
DC Blocking Voltage per Diode @T <sub>J</sub> = 150°C	IR	3										
RMS Isolation Voltage from Case to Lead	Viso	2500									V	
Operating Junction Temperature Range	TJ		-55 to +150									°C
Storage Temperature Range	Тѕтс	-55 (0 + 150										

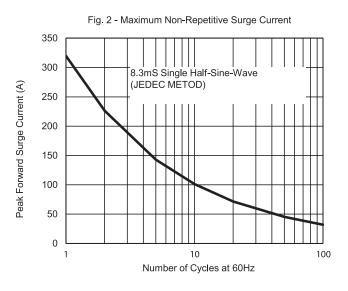
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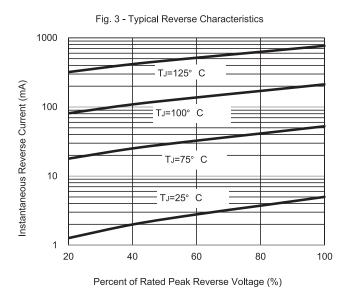


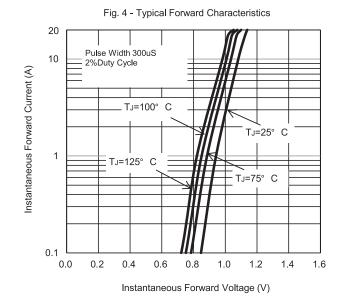


## **Rating and Characteristic Curves**





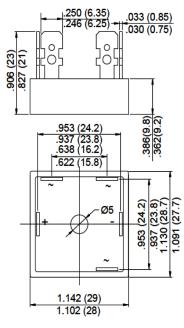




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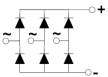


## **Diagram**



Dimensions: Inches (Millimetres)

## Schematic



### **Part Number Table**

Description	Part Number		
Bridge Rectifier, 3-Phase, 25A, 50V, SBRG Quick Connect	MP001014		
Bridge Rectifier, 3-Phase, 25A, 100V, SBRG Quick Connect	MP001015		
Bridge Rectifier, 3-Phase, 25A, 200V, SBRG Quick Connect	MP001016		
Bridge Rectifier, 3-Phase, 25A, 400V, SBRG Quick Connect	MP001017		
Bridge Rectifier, 3-Phase, 25A, 600V, SBRG Quick Connect	MP001018		
Bridge Rectifier, 3-Phase, 25A, 800V, SBRG Quick Connect	MP001019		
Bridge Rectifier, 3-Phase, 25A, 1kV, SBRG Quick Connect	MP001020		
Bridge Rectifier, 3-Phase, 25A, 1.2kV, SBRG Quick Connect	MP001021		
Bridge Rectifier, 3-Phase, 25A, 1.4kV, SBRG Quick Connect	MP001022		
Bridge Rectifier, 3-Phase, 25A, 1.6kV, SBRG Quick Connect	MP001023		

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