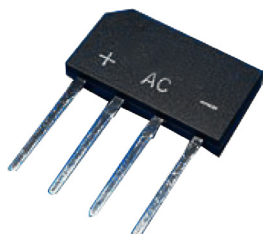


Passivated Bridge Rectifier **multicomp**PRO

RoHS
Compliant



Features

- Glass Passivated
- Surge overload rating -150 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing moulded plastic technique
- Mounting position : Any

Specifications

Reverse Voltage : 1000 Volts

Forward Current : 4 Amperes

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	Values	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Max. RMS Voltage	V_{RMS}	700	
Max. DC Blocking Voltage	V_{DC}	1000	
Max. Average Forward (with heatsink Note 2) Rectified Current at $T_c = 100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$	4 2.4	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	120	
Max. Forward Voltage at 4 A DC	V_F	1.1	V
Max. DC Reverse Current at $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_J = 125^\circ\text{C}$	I_R	10 500	μA
I^2t Rating For Fusing ($t < 8.3\text{ms}$)	I^2t	93	A^2s
Typical Junction Capacitance per Element (Note 1)	C_J	45	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.2	$^\circ\text{C} / \text{W}$
Operating Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}		

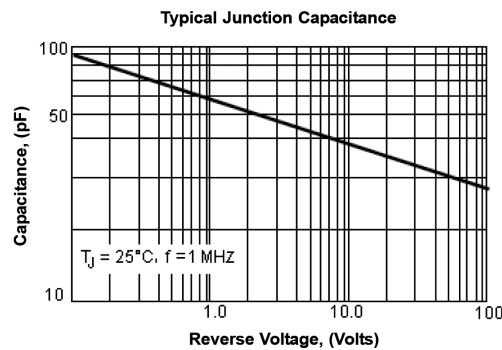
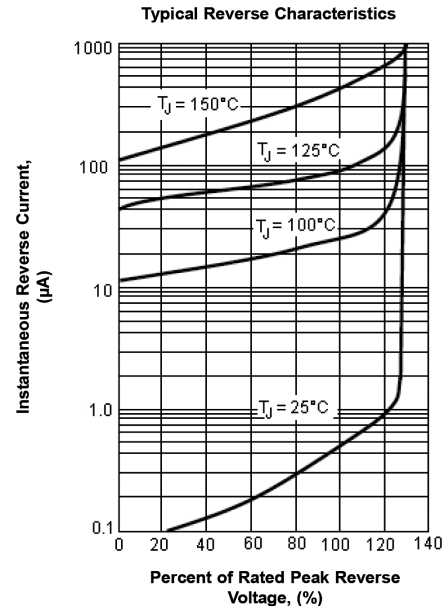
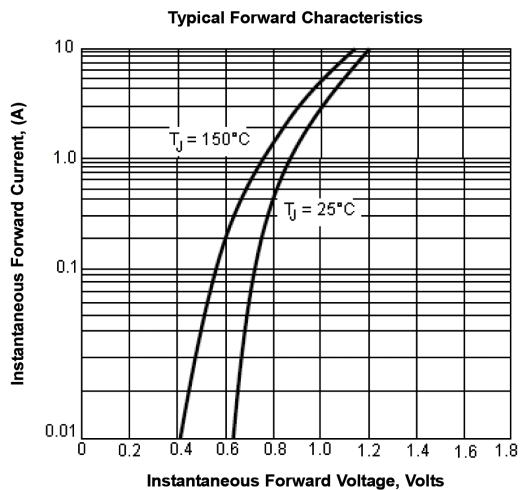
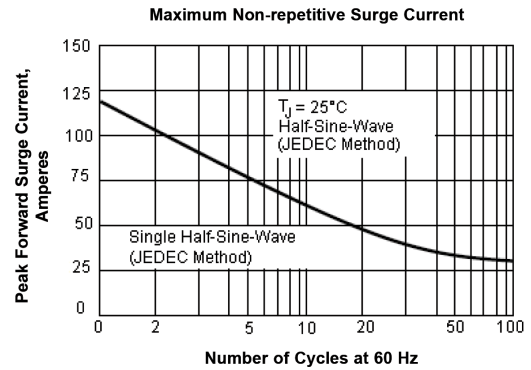
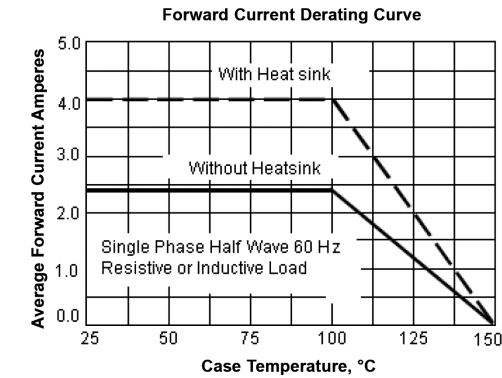
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V DC
2. Device mounted on 50 × 50 × 1.6mm cu plate heatsink

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Element14.com/multicomp-pro

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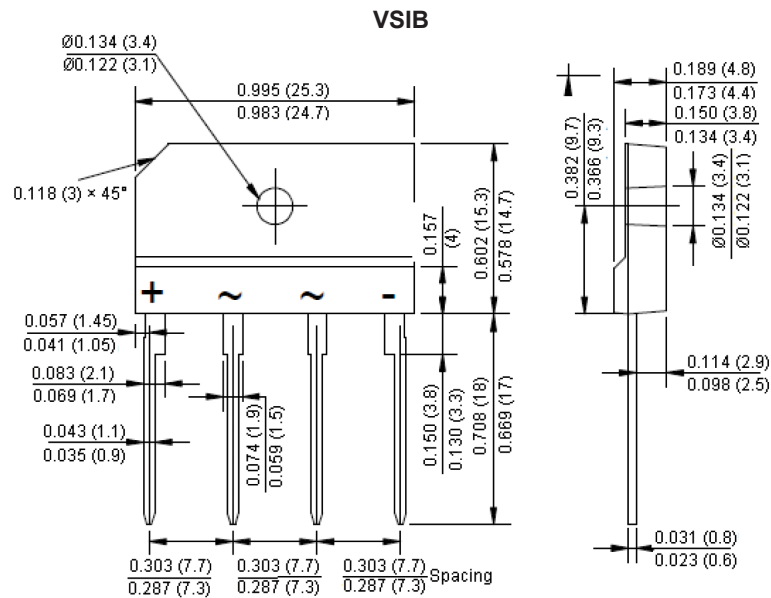
Passivated Bridge Rectifier **multicomp**PRO

Rating and Characteristic Curves



Passivated Bridge Rectifier multicomp^{PRO}

Diagram



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Bridge Rectifier, 1000V, 4A	VSIB500

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