

GBU6005 THRU GBU610

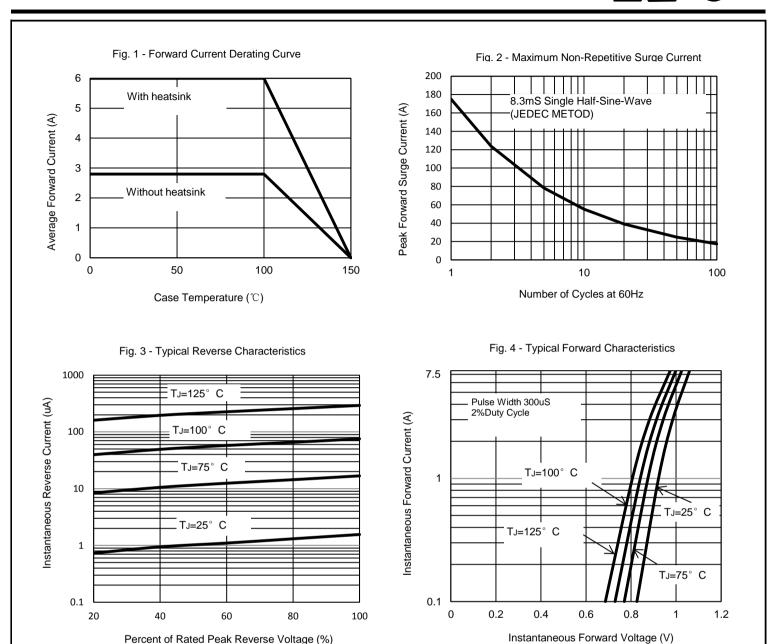
Glass Passivated Bridge Rectifiers		Reverse Voltage - 50 to 1000 Volts							
Glass Passivated Bridge Rectifiers		Forward Current - 6.0 Amperes							
 Features Glass passivated chip Low forward voltage drop Ideal for printed circuit board High surge current capability Mechanical Data Polarity: Symbol marked on body Mounting position: Any Applications General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, etc. 	n,	Chi .232 1.213 .401 (1 .392 (5	.161 (4.1) .134 (3.4) 3.2)*45° amfer (5.9) (5.4) 10.2) 9.80) + 00 (2.54) 85 (2.16) .080 (2.03) .065 (1.65)		3) 	.133 .752 (19.1) .720 (18.3) .080 (2.03) .060 (1.53) .060 (1.53) .060 (1.53) .060 (1.727) .060 (17.27) .060 (17.27) .061 (1.22)	9 (3.53) 3 (3.37) 		
Maximum Ratings and Electrical Character	ristics		Package	Outline	Dimensi	ons in In	iches (Mi	llimeters)
Single phase, half wave, 60Hz, resistive or inductive load.	ied.								
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.	Symbol	GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610	Unit
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic		GBU6005 50	GBU601 100	GBU602 200	2 GBU604 400	GBU606	GBU608	GBU610 1000	Unit V
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage	Symbol 符号	GBU6005			-				V
Rating at 25 °C ambient temperature unless otherwise specifi Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage	Symbol 符号 VRRM	50 SBU6005	100	200	400	600	800	1000	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward (with heatsink Note 2)	Symbol	50 35	100 70	200 140	400 280	600 420	800 560	1000 700	V V
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100°C (without heatsink) Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	Symbol 符号 VRRM VRMS VRMS VDC	50 35	100 70	200 140	400 280 400 6.0	600 420	800 560	1000 700	V V V
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100°C (without heatsink) Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	Symbol 符号 VRRM VRMS VDC I(AV)	50 35	100 70	200 140	400 280 400 6.0 2.8	600 420	800 560	1000 700	V V V A
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100°C (without heatsink) Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) I ² t Rating for Fusing (t<8.3mS)	Symbol	50 35	100 70	200 140	400 280 400 6.0 2.8 175	600 420	800 560	1000 700	V V A A
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100°C (without heatsink) Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) I ² t Rating for Fusing (t<8.3mS) Peak Forward Voltage per Diode at 3A DC Maximum DC Reverse Current at Rated @TJ=25°C	Symbol	50 35	100 70	200 140	400 280 400 6.0 2.8 175 127.1	600 420	800 560	1000 700	V V A A A ² s
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100°C (without heatsink) Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) I ² t Rating for Fusing (t<8.3mS) Peak Forward Voltage per Diode at 3A DC Maximum DC Reverse Current at Rated @TJ=25°C DC Blocking Voltage per Diode @TJ=125°C	Symbol	50 35	100 70	200 140	400 280 400 6.0 2.8 175 127.1 1.0 5.0	600 420	800 560	1000 700	V V V A A A A ² s V
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage	Symbol	50 35	100 70	200 140	400 280 400 6.0 2.8 175 127.1 1.0 5.0 500	600 420	800 560	1000 700	V V A A A A ² s V μΑ
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristic Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100°C (without heatsink) Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) I ² t Rating for Fusing (t<8.3mS) Peak Forward Voltage per Diode at 3A DC Maximum DC Reverse Current at Rated @TJ=25°C DC Blocking Voltage per Diode @TJ=125°C Typical Junction Capacitance per Diode (Note1)	Symbol	50 35	100 70	200 140 200	400 280 400 6.0 2.8 175 127.1 1.0 5.0 500 50	600 420 600	800 560	1000 700	V V A A A A ² s V μΑ pF

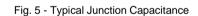
Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 75mm*75mm*1.6mm Cu plate heatsink.

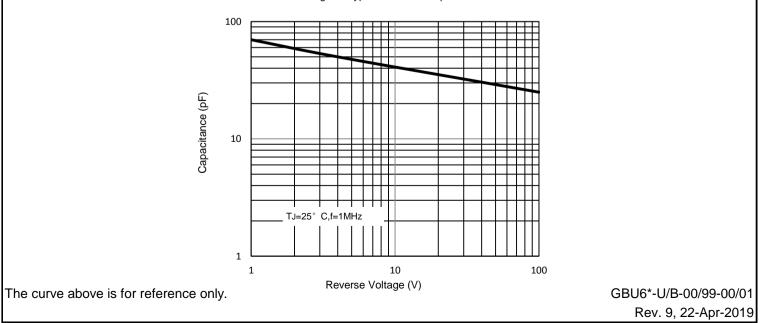
3. The typical data above is for reference only

Rating and Characteristic Curves GBU6005 THRU GBU610





Percent of Rated Peak Reverse Voltage (%)





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