

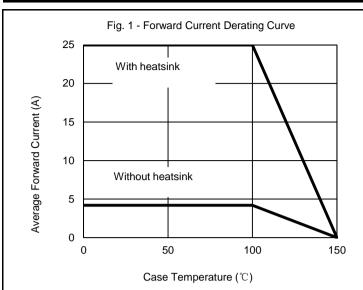
GBU25005 THRU GBU2510

Glass Passivated Bridge Rectifiers			Reverse Voltage - 50 to 1000 Volts							
			Forward Current - 25 Amperes							
Features • Glass passivated chip • Low forward voltage drop • Ideal for printed circuit board • High surge current capability • Meet UL flammability classification 94V-0 Mechanical Data		GBU .752(19.1) .720(18.3 .091(2 .067(1.	J 437 4300 4300 4300 430 4300 4300 4300 4300 430	(11.1) (10.9) .874(22. .860(21.	2)	.126(3.2 CHAMF)*45° <u>.1:</u> ER 9)	<u>39(3.53)</u> 33(3.37)	RoHS COMPLIANT	
 Polarity: Symbol marked on body Mounting position: Any 		.720(18.2 .680(17.2 .047	9) (1.2) (0.9)		.07	<u>94(2.4)</u> 79(2.0)	.106(2.7) .091(2.3)			
 General purpose use in AC/DC bridge full wave rectification, 			.1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$.190 (5.3) (4.8)		.018(.46)			
for SMPS, lighting ballaster, adapter, etc.		Pa	ckage (Dutline	Dimensi	ions in l	Inches (Millimet	ers)	
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%.										
Single phase, half wave, 60Hz, resistive or inductive load.	Symbol	GBU 25005	GBU 2501	GBU 2502	GBU 2504	GBU 2506	GBU 2508	GBU 2510	Unit	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.	Symbol								Unit	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics		25005	2501	2502	2504	2506	2508	2510		
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage	Vrrm	25005 50	2501 100	2502 200	2504 400	2506 600	2508 800	2510 1000	V	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage	VRRM VRMS	25005 50 35	2501 100 70	2502 200 140	2504 400 280	2506 600 420	2508 800 560	2510 1000 700	V V	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward (with heatsink Note 2)	VRRM VRMS VDC	25005 50 35	2501 100 70	2502 200 140	2504 400 280 400 25.0	2506 600 420	2508 800 560	2510 1000 700	V V V	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics 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,	VRRM VRMS VDC I(AV)	25005 50 35	2501 100 70	2502 200 140	2504 400 280 400 25.0 4.2	2506 600 420	2508 800 560	2510 1000 700	V V V A	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics 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)	VRRM VRMS VDC I(AV) IFSM	25005 50 35	2501 100 70	2502 200 140	2504 400 280 400 25.0 4.2 350	2506 600 420	2508 800 560	2510 1000 700	V V V A A	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics 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)	VRRM VRMS VDC I(AV) IFSM I ² t	25005 50 35	2501 100 70	2502 200 140	2504 400 280 400 25.0 4.2 350 508	2506 600 420	2508 800 560	2510 1000 700	V V V A A A ² s	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics 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 12.5A DC Maximum DC Reverse Current at Rated @TJ=25°C	VRRM VRMS VDC I(AV) IFSM I ² t VF	25005 50 35	2501 100 70	2502 200 140	2504 400 280 400 25.0 4.2 350 508 1.0 5.0	2506 600 420	2508 800 560	2510 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%. Characteristics 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 12.5A DC Maximum DC Reverse Current at Rated @TJ=25°C DC Blocking Voltage per Diode @TJ=125°C	VRRM VRMS VDC I(AV) IFSM I ² t VF IR	25005 50 35	2501 100 70	2502 200 140	2504 400 280 400 25.0 4.2 350 508 1.0 5.0 500	2506 600 420	2508 800 560	2510 1000 700	V V V A A A A A ² s V μΑ	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics 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 12.5A DC Maximum DC Reverse Current at Rated @TJ=25°C DC Blocking Voltage per Diode @TJ=125°C Typical Junction Capacitance per Diode (Note1)	VRRM VRMS VDC I(AV) IFSM I ² t VF IR IR	25005 50 35	2501 100 70	2502 200 140	2504 400 280 400 25.0 4.2 350 508 1.0 5.0 500 70	2506 600 420	2508 800 560	2510 1000 700	V V V A A A A A ² s V μΑ	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics 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 12.5A DC Maximum DC Reverse Current at Rated @TJ=25°C DC Blocking Voltage per Diode @TJ=125°C Typical Junction Capacitance per Diode (Note1) Typical Thermal Resistance to Ambient (Note2)	VRRM VRMS VDC I(AV) IFSM I ² t VF IR IR CJ R0JA	25005 50 35	2501 100 70	2502 200 140	2504 400 280 400 25.0 4.2 350 508 1.0 500 5.0 500 70 10	2506 600 420	2508 800 560	2510 1000 700	V V V A A A A A 2s V μA pF	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics 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 12.5A DC Maximum DC Reverse Current at Rated @TJ=25°C DC Blocking Voltage per Diode @TJ=125°C Typical Junction Capacitance per Diode (Note1) Typical Thermal Resistance to Ambient (Note2)	VRRM VRMS VDC I(AV) IFSM I ² t VF IR IR CJ R0JA R0JC	25005 50 35	2501 100 70	2502 200 140 200	2504 400 280 400 25.0 4.2 350 508 1.0 5.0 500 70 10 2	2506 600 420 600	2508 800 560	2510 1000 700	V V V A A A A A A S V μA pF	

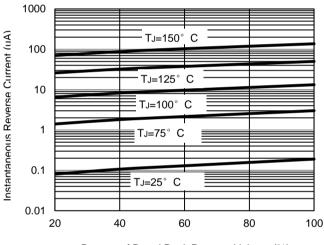
2.Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.

3. The typical data above is for reference only

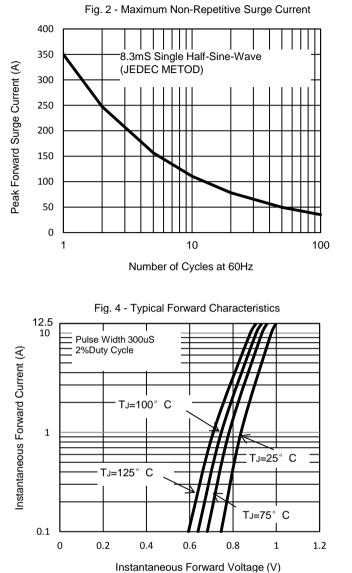
Rating and Characteristic Curves GBU25005 THRU GBU2510







Percent of Rated Peak Reverse Voltage (%)



The curve above is for reference only.