

Bridge Rectifier



Features:

- Surge overload rating from 300A to 450A
- Low forward voltage drop
- Mounting position: Any
- Electrically isolated base: 2,000V
- Solderable 0.25" FASTON terminals

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified

Resistive or inductive load: 60Hz

For capacitive load, derate current by 20%

Characteristics	Symbol	GBPC25005+	GBPC2504+	GBPC2506+	GBPC2508+	GBPC2510+	Units
Max. Repetitive Peak Reverse Voltage	V _{RRM}	50	400	600	800	1000	V
Max. RMS Bridge Input Voltage	V _{RMS}	30	280	420	560	700	
Max. Average Forward Rectified Output Current @ T _C = 55°C	I _(AV)	35					A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	400					
Max. Forward Voltage Drop Per Element at 5 / 7.5 / 12.5 / 17.5 / 25A Peak	V _F	1.1					V
Max. Reverse Current at Rated DC Blocking Voltage Per Element @ T _A = 25°C	I _R	10					μA
Operating and Storage Temperature Range	T _J , T _{STG}	-50 to +150					°C

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Characteristics	Symbol	GBPC3501+	GBPC3502+	GBPC3506+	GBPC3508+	GBPC3510+	Units
Max. Repetitive Peak Reverse Voltage	V _{RRM}	100	200	600	800	1000	V
Max. RMS Bridge Input Voltage	V _{RMS}	70	140	420	560	700	
Max. Average Forward Rectified Output Current @ T _C = 55°C	I _(AV)	50					A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	450					
Max. Forward Voltage Drop Per Element at 5 / 7.5 / 12.5 / 17.5 / 25A Peak	V _F	1.1					V
Max. Reverse Current at Rated DC Blocking Voltage Per Element @ T _A = 25°C	I _R	10					μA
Operating and Storage Temperature Range	T _J , T _{STG}	-50 to +150					°C

Characteristics	Symbol	GBPC5006+	Units
Max. Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Max. RMS Bridge Input Voltage	V_{RMS}	420	
Max. Average Forward Rectified Output Current @ $T_c = 55^\circ\text{C}$	$I_{(AV)}$	50	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	400	
Max. Forward Voltage Drop Per Element at 5 / 7.5 / 12.5 / 17.5 / 25A Peak	V_F	1.1	V
Max. Reverse Current at Rated DC Blocking Voltage Per Element @ $T_A = 25^\circ\text{C}$	I_R	10	μA
Operating and Storage Temperature Range	T_J, T_{STG}	-50 to +150	$^\circ\text{C}$

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Ratings and Characteristic Curves:

FIG.1-MAXMUN FORWARDS URGE CURRENT

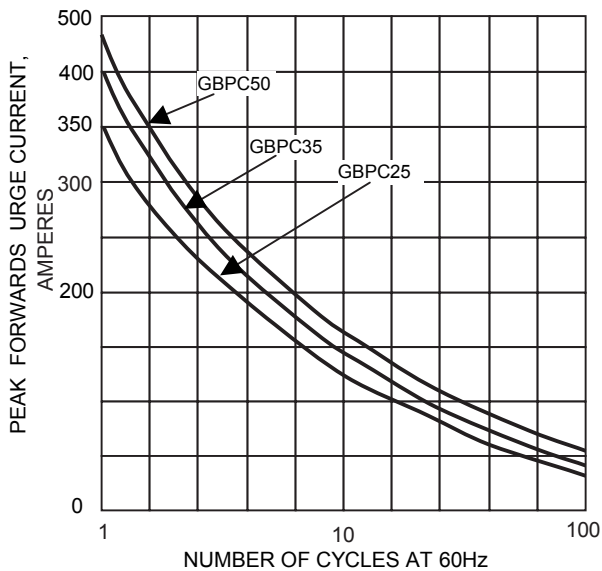


FIG.2- DERATING CURVEO UTPUT RECTIFIED CURRENT

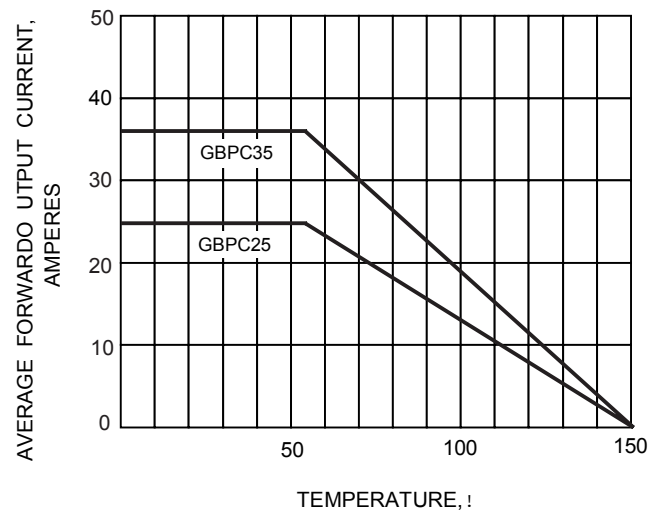


FIG.3-TYPICAL FORWARD CHARACTERISTICS

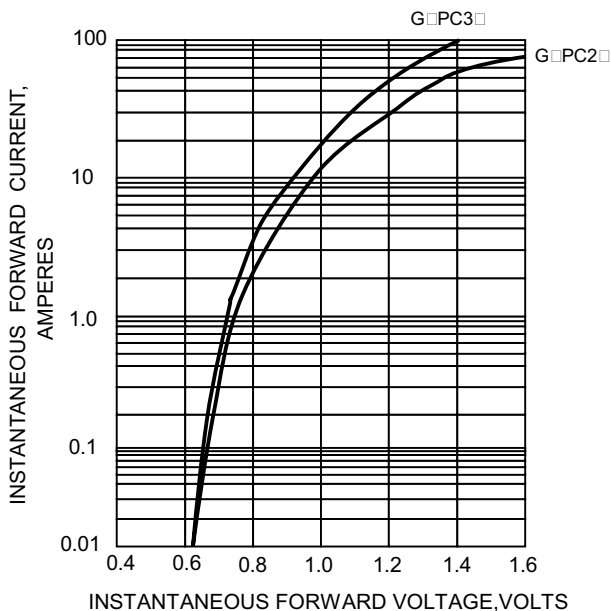
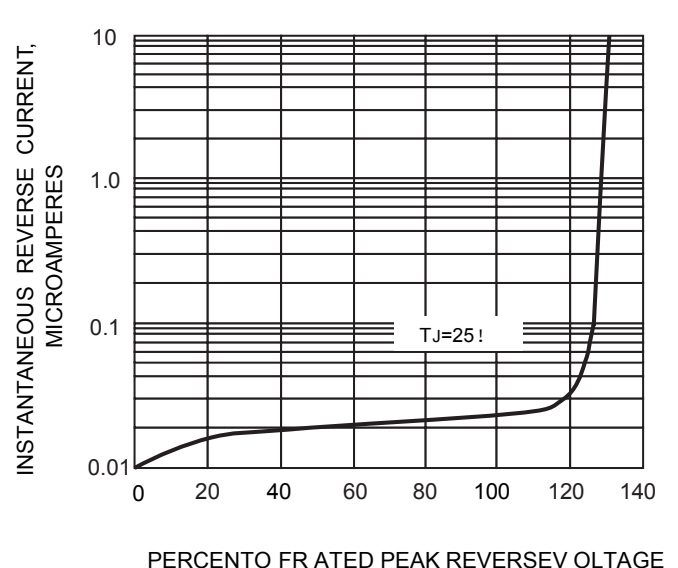


FIG.4-TYPICAL REVERSE CHARACTERISTICS

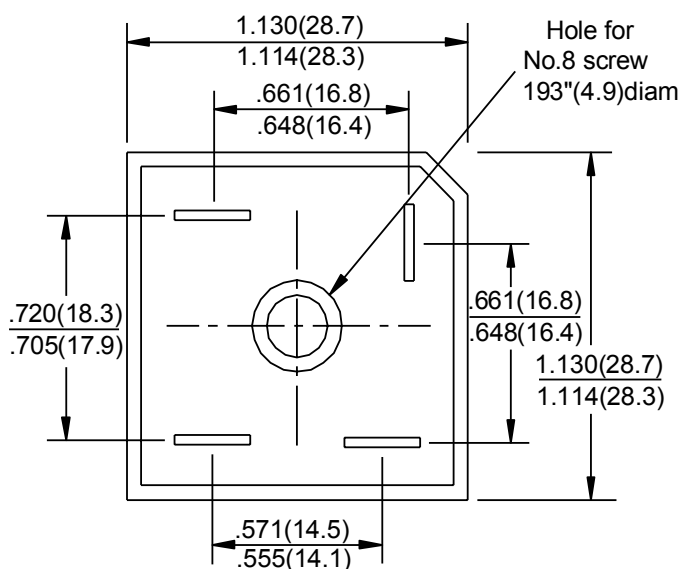


- Note:** 1. GBPC25 represents all these part numbers - GBPC25005+, GBPC2504+, GBPC2506+, GBPC2508+ & GBPC2510+
 2. GBPC35 represents all these part numbers - GBPC3501+, GBPC3502+, GBPC3506+, GBPC3508+ & GBPC3510+
 3. GBPC50 represents this part number - GBPC5006+

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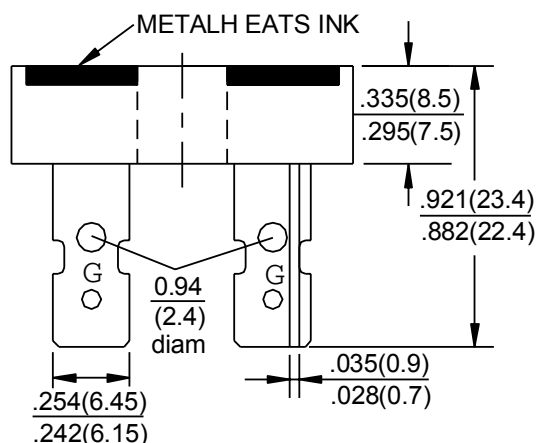


Dimensions:



Dimensions : Inches (Millimetres)

GBPC



Part Number Table

Description	Part Number
Bridge Rectifier, 25A, 50V	GBPC25005+
Bridge Rectifier, 25A, 400V	GBPC2504+
Bridge Rectifier, 25A, 600V	GBPC2506+
Bridge Rectifier, 25A, 800V	GBPC2508+
Bridge Rectifier, 25A, 1,000V	GBPC2510+
Bridge Rectifier, 35A, 100V	GBPC3501+
Bridge Rectifier, 35A, 200V	GBPC3502+
Bridge Rectifier, 35A, 600V	GBPC3506+
Bridge Rectifier, 35A, 800V	GBPC3508+
Bridge Rectifier, 35A, 1,000V	GBPC3510+
Bridge Rectifier, 50A, 600V	GBPC5006+

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