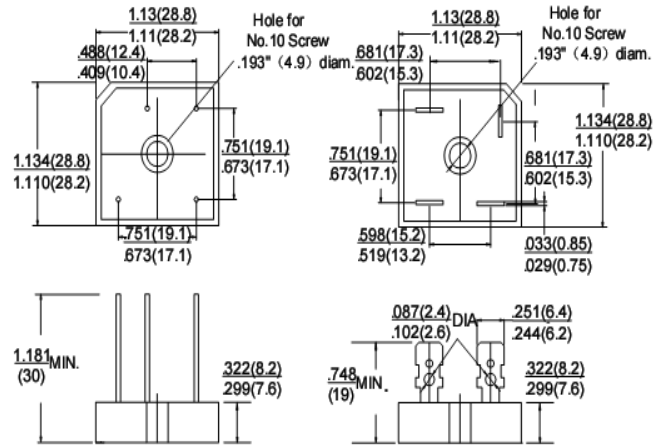


# GBPC50 Series

Glass Passivated Bridge Rectifiers  
 Reverse Voltage 50 to 1000V Forward Current 50A

## Features

- Surge overload rating: 400A peak
- Low forward voltage drop
- Mounting position: any
- Electrically isolated base-1800V
- Solderable 0.25" faston terminals
- Materials used carries U/K recognition



Dimensions in inches and (millimeters)

**GBPC-W**

**GBPC**

(Add suffix 'W')

## Maximum Ratings and Electrical Characteristics

( $T_A=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbols	GBPC 50005	GBPC 5001	GBPC 5002	GBPC 5004	GBPC 5006	GBPC 5008	GBPC 5010	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_C=55^\circ\text{C}$	$I_{F(AV)}$	50.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load, JEDEC Method)	$I_{FSM}$	400.0							A
Max. Instantaneous Forward Voltage Drop per Element at $I_F=25\text{A}$	$V_F$	1.2							V
Maximum DC Reverse Current at rated DC Blocking Voltage per Element	$T_A=25^\circ\text{C}$	10.0							$\mu\text{A}$
	$T_A=125^\circ\text{C}$	500							
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

## Typical Characteristic Curves

FIG. 1 - MAXIMUM FORWARD SURGE CURRENT

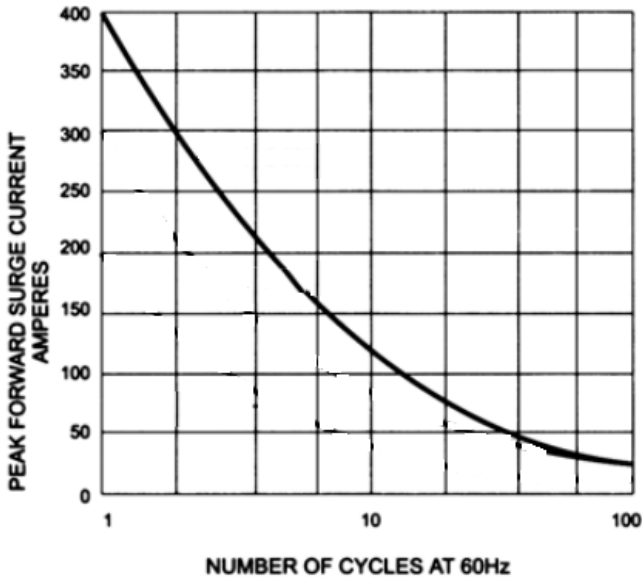


FIG. 2 - DERATING CURVE  
 OUTPUT RECTIFIED CURRENT

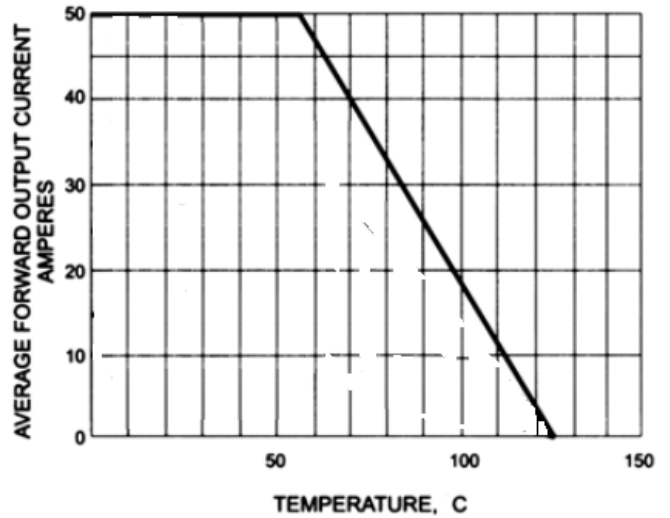


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

