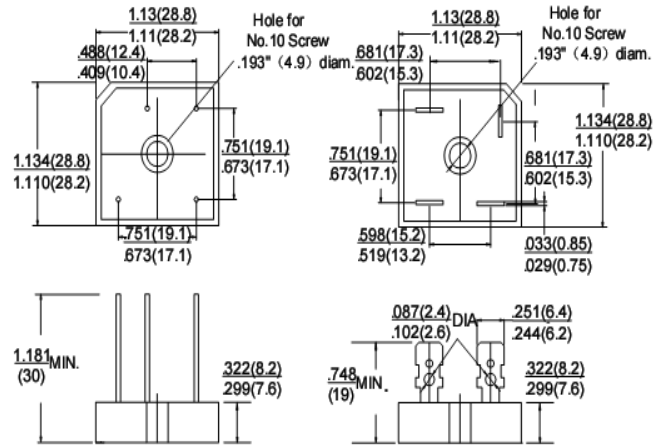


GBPC50 Series

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							μA
	$T_A=125^\circ\text{C}$	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

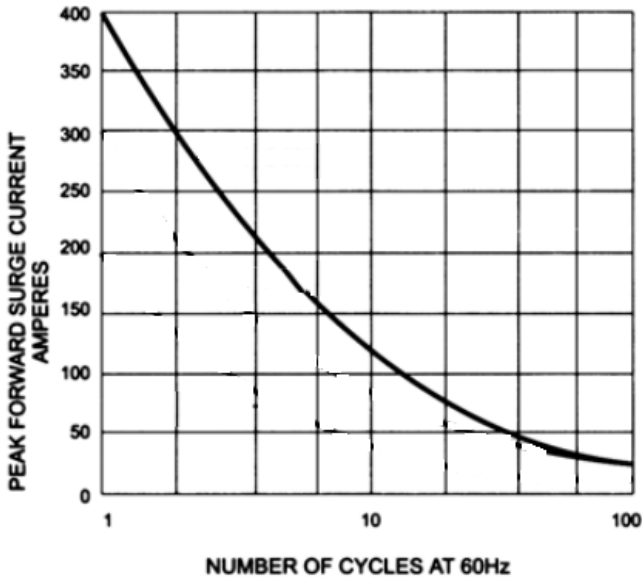


FIG. 2 - DERATING CURVE
 OUTPUT RECTIFIED CURRENT

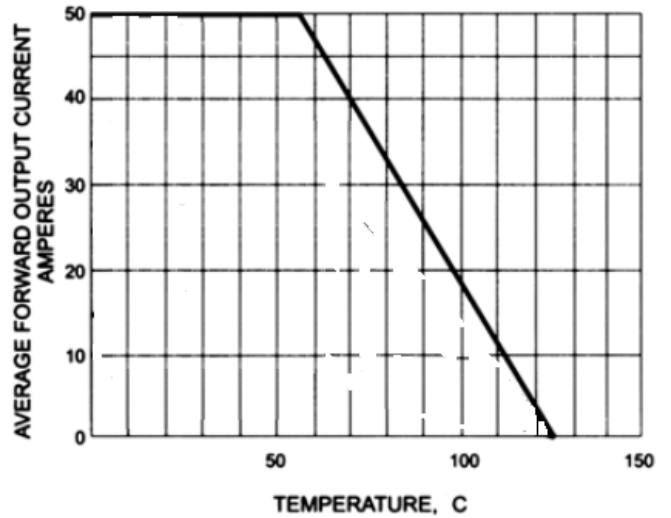


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

