

GBP406 thru GBP410

REVERSE VOLTAGE – 600 to 1000 Volts FORWARD CURRENT – 4.0 Ampere

GBP

GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94-0
- UL recognized file#E95060

MECHANICAL DATA

- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- · Polarity indicator: As marked on body
- Weight: 1.33 grams

GBP					
Dim.	Min.	Max.			
Α	14.2	14.7			
В	2.9	3.3			
С	10.1	10.7			
D	13.8	14.4			
Е	1.8	2.2			
F	6.65	7.25			
G	3.71	3.91			
Н	0.4	0.6			
I	1.20	1.40			
J	0.64	0.84			
0	1.8	2.4			
Р	3 .1 φ	3.3ϕ			
All Dimensions in millimeter					

REV. 9, Mar-2016, KBDG07

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ℃ ambient temperature unless otherwise specified.

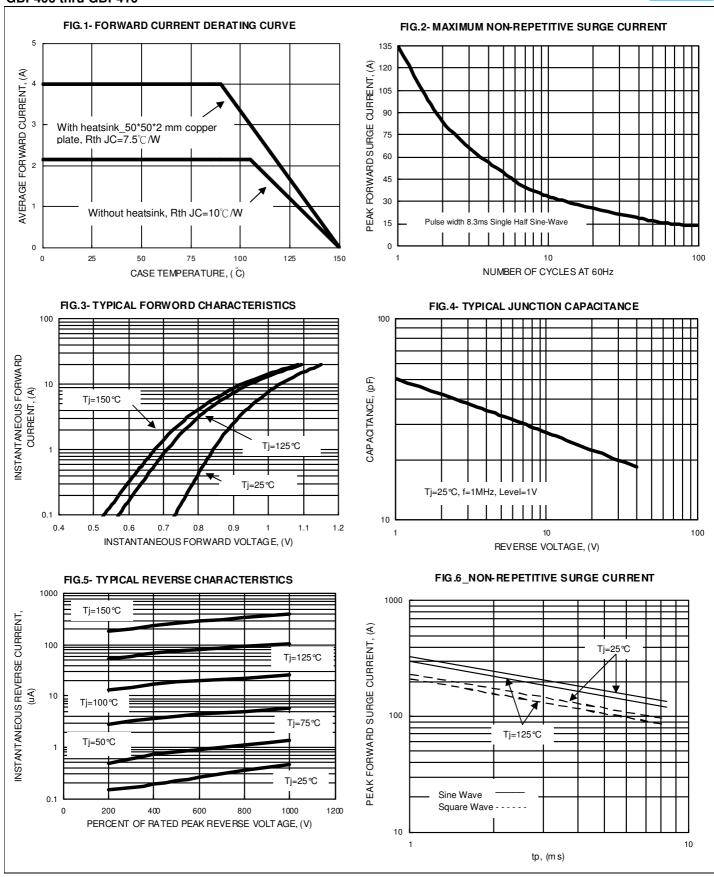
PARAMETER	SYMBOL	GBP406	GBP408	GBP410	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
$\begin{array}{cccc} \mbox{Maximum Average Forward} & \mbox{with Heat-sink} & \mbox{@TC=90}^{\circ}\!$	I _(AV)	4.0 2.1		А	
Peak Forward Surge Current@ Tj = 25 $^{\circ}$ C8.3ms single half sine-wave@ T _J = 125 $^{\circ}$ C	I _{FSM}	135 120		А	
Peak Forward Surge Current @ Tj = 25 °C 1.0ms single half sine-wave @ T _J = 125 °C	I _{FSM}	330 300		А	
Maximum Forward Voltage at 2.0A DC	V _F	1.0			V
Maximum DC Reverse Current @ $T_J = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_J = 125^{\circ}C$	I _R	5 500		uA	
I 2 t Rating for fusing (3ms \leq t \leq 8.3)	I ² t	60			A ² S
Typical Junction Capacitance (Note 1)	CJ	40			pF
Typical Thermal Capacitance (Note 2)	R⊖ _{JC}	7.5			%C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150			∞

Note:

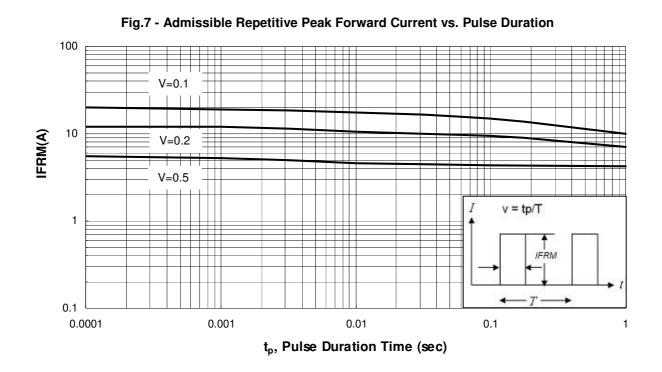
(1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(2) Device mounted on 50mm x 50mm x 2.0mm Cu Plate Heatsink











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