GBP4005A - GBP410A

Bridge Rectifiers

Features

- UL recognition, file #E230084
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

• Package: GBP

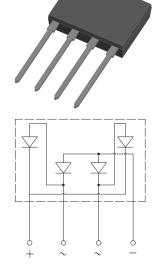
Molding compound meets UL 94 V-0 flammability

rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102
• Polarity: As marked on body





■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBP4005A	GBP401A	GBP402A	GBP404A	GBP406A	GBP408A	GBP410A
Device marking code				GBP4005A	GBP401A	GBP402A	GBP404A	GBP406A	GBP408A	GBP410A
Repetitive peak reverse voltage		VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load	With heatsink $T_C = 140^{\circ}C$ Without heatsink $T_C = 70^{\circ}C$	· IO	А	4.0						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C		IFSM	Α	135						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l ² t	A ² s	75						
Storage temperature		Tstg	${\mathbb C}$	-55 ~+150						
Junction temperature		Tj	$^{\circ}$	-55 ~+150						

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBP4005A	GBP401A	GBP402A	GBP404A	GBP406A	GBP408A	GBP410A
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=2.0A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	5						

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBP4005A	GBP401A	GBP402A	GBP404A	GBP406A	GBP408A	GBP410A
Thermal	Between junction and ambient	RθJ-A °C/W		47.0						
Resistance	Between junction and lead	RøJ-L	C/VV				10.0			

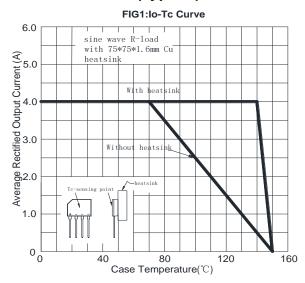


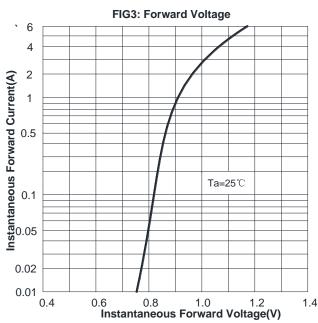
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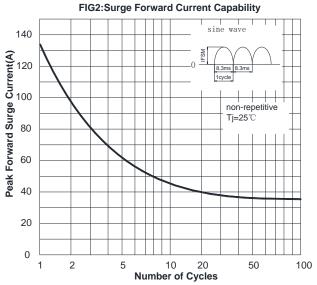
■Ordering Information (Example)

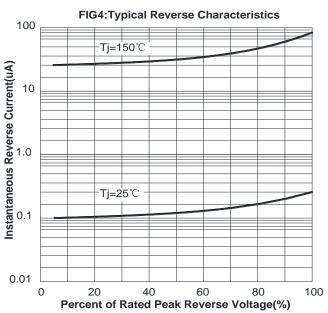
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBP4005A THRU GBP410A	B1	1.4	35	2100	4200	TUBE

■ Characteristics (Typical)



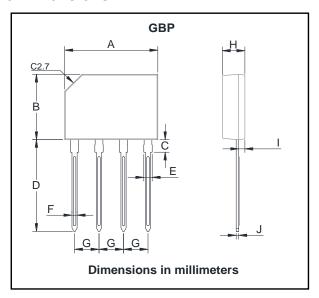








■ Outline Dimensions



GBP						
Dim	Min	Max				
Α	14.25	14.75				
В	10.10	10.60				
С	1.80	2.20				
D	14.25	14.73				
Е	1.22	1.42				
F	0.76	0.86				
G	3.70	3.90				
Η	3.35	3.65				
I	0.80	1.10				
J	0.35	0.55				

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