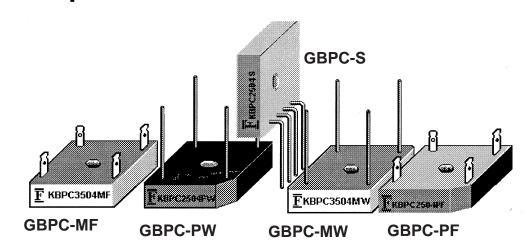
Description



Dimensions in millimeters (1mm=0.0394")

Features

- * Surge overload ratings to 300 amperes
- * This series is UL listed under the Recognized Component Index, file number E142814
- * The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- * Universal 4-way terminals, snap-on, wrap-around, solder or P.C. Board mounting
- * High temperature soldering guaranteed 265 C/10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

- * Case: Metal case
- *Terminals: Plated .25" (6.53mm) Faston
- *Mounting Position: Bolt down on heat-sink with silicone thermal compound between bridges and mounting surface for maximum heat transfer efficiency
- *Mounting Position: Any

Weight: 0.706 ounce, 20 grams (approx)

Maximum Ratings & Thermal Characteristics
Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

Parameter	Symbol	GBPC 1500	GBPC 1501	GBPC 1502	GBPC 1504	GBPC 1506	GBPC 1508	GBPC 1510	GBPC 1512	uni
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	1200	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	840	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	1200	V
Maximum average forward rectified output current at TA=55 ℃	IF(AV)) 15								А
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	300								А
Rating for fusing (t<8.3ms)	l ² t	374								A ² s
Typical thermal resistance per element (1)	ReJA	2.1								°C/\
Isolation voltage from case to leads		2500								Va
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150								ဗ
MAX instantaneous forward voltage drop / leg 7.5A	VF	1.0								V
MAX DC reverse current at rated Ta=25C° DC blocking voltage per element Ta=125C°	IR	10 500								uA uA

Rating and Characteristic Curves (TA=25°C Unless otherwise noted) GBPC15005 thru GBPC1512

Fig. 1 Derating Curve for Output Rectified Current

15

10

60Hz Resistive or Inductive Load

Case Temperature, C

Fig. 2 Maximum Non-repetitive Peak

Fig. 3 Typical Instantaneous
Forward Characteristics

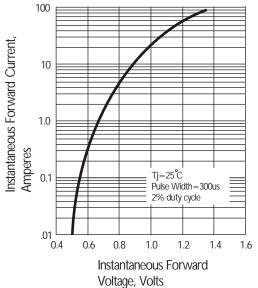
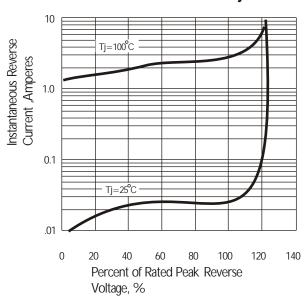
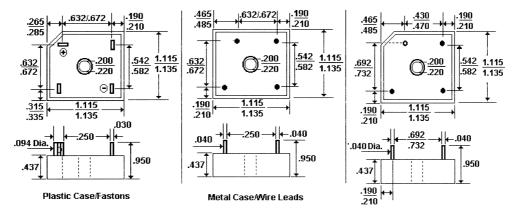


Fig. 4 Typical Reverse
Characteristics at Tj=25°C

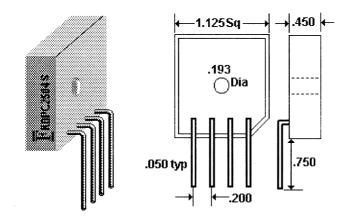




15Amps Glass Passivated Single Phase Silicon Bridge



Plastic Case/Wire Leads



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

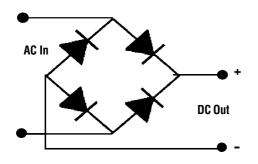
For Capacitive Load, Derate Current by 20%.

- NOTES: 1. Corrosion-Resistant Terminals Designed for .250" Female Quick Connect Wrap Around
 - A Thin Film of Silicone Thermal Compound is Recommended Between Bridge and
 - Mounting Surface for Improved Thermal Conduction.

 3. These FCI Bridges Are Also Available in Fast Recovery, In Positive and Negative Center Tap and in Double Configurations. Consult with FCI for Your Special Requirements.



15Amps Glass Passivated Single Phase Silicon Bridge



Case - Metal or Molded Plastic

Terminals - Plated .25" Faston or Plated Copper Wire Leads .040" Diameter

Weight - 0.706 Ounces, 20 Grams

Mounting Position - Any with Bolt Down with Silicone Thermal Compound Between Bridge and Mounting Surface for Optimum Heat

Transfer

Mounting Torque - 20 Inch Pound Max

Ordering Information

FCI'S KBPC Series of Bridges Can Be Ordered with Options on Terminals and Case Materials.

How To Specify Case Material and Terminal Options:

- For Metal Case, Order Suffix (1) "M"
- For Plastic Case, Order Suffix (1) "P"
- For Faston Terminals, Order Suffix (2) "F"
- For Wire Lead Terminals, Order Suffix (2) "W"

KBPC Series Examples

To Order a 25 Amp, 400 Volt Bridge with Faston Leads and a Plastic Case:

Specify -GBPC2504PF . . . Where "P" = Plastic and "F" = Faston Terminals

To Order a 35 Amp, 800 Volt Bridge with Wire Leads and a Metal Case:

Specify -GBPC3508MW . . . Where "M" = Metal and "W" = Wire Leads (Terminals)

To Order a 15 Amp, 200 Volt, UL Recognized Bridge with Wire Leads and a Plastic Case:

Specify -GBPC1502PWU Where "P" = Plastic and "W" = Wire Leads (Terminals) and "U" = UL Recognized

NOTE: Fast Recovery Bridges (Diodes) Are Available; Please Contact FCI Components.

GBPC - "S" Series Examples

To Order Bridges with the "In-Line" Pin Configuration, Select the Current and Voltage Desired and Add "S" as the Suffix, as shown in the following example.

To Order a 35 Amp, 800 Volt Bridge with In-Line Wire Leads:

Specify GBPC3508S . . . Where "S" = In-Line Wire Lead Terminals