DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

* Metal case for maximum heat dissipation

* Epoxy: UL 94-V0 rated flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed * Polarity: Symbols molded or marked on body

* Low forward voltage drop

MECHANICAL DATA

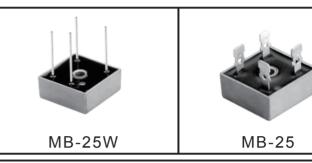
* Case: Molded plastic

* Mounting position: Any

* Weight: 30 grams

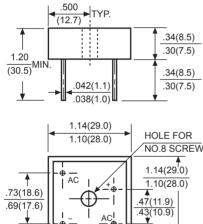
R

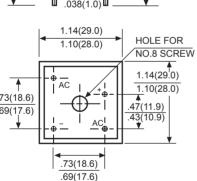
* High current capability



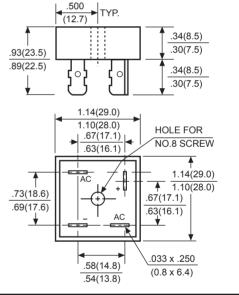
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.





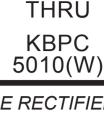
Dimensions in inches and (millimeters)



	SYMBOL	KBPC 50005(W)	KBPC 5001(W)	KBPC 5002(W)	KBPC 5004(W)	KBPC 5006(W)	KBPC 5008(W)	KBPC 5010(W)	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	50							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	500						Amps	
Maximum Instantaneous Forward Voltage at 25A DC	VF	1.1				Volts			
Maximum DC Reverse Current at Rated@TA = 25°CDC Blocking Voltage@TA = 125°C	IR	10 100							μAmps
I ² t Rating for Fusing (t<8.3mS)	l ² t	1037.5					A ² s		
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150					°C		

Note: Suffix "W" for wire lead type (e.g.:KBPC50005W,KBPC5001W...etc)

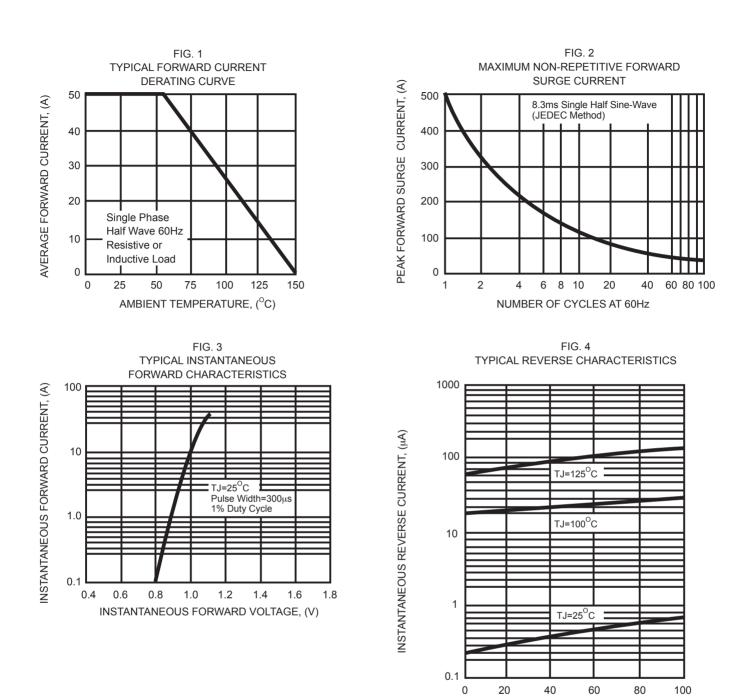
CURRENT - 50 Amperes



KBPC 50005(W)



RATING AND CHARACTERISTIC CURVES (KBPC50005(W) THRU KBPC5010(W))



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

Disclaimer

Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold *DC COMPONENTS* are harmless against all damages.

DC COMPONENTS disclaims any and all liability arising out of the application or use of any product, including consequential or incidental damages. Statement regarding the suitability of products for certain types of applications are based on *DC COMPONENTS* 's knowledge of typical requirements that are often placed on *DC COMPONENTS* products in generic applications. Such statements are not binding statements about the suitability of products for aparticular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

DC COMPONENTS reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein, and disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify *DC COMPONENTS* 's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Unless otherwise in writing, *DC COMPONENTS* products are intended for use as general electronic components in standard applications (eg: Consumer electronic, Computer equipment, Office equipment, etc.), and not recommended for use in a high specific application where a failure or malfunction of the device could result in human injury or death (eg: Aerospace equipment, Submarine cables, Combustion equipment, Safety devices, Life support systems, etc.)

Customers using or selling *DC COMPONENTS* products not expressly indicated for use in such applications do so at their own risk. If customer intended to use *DC COMPONENTS* standard quality grade devices for applications not envisioned by *DC COMPONENTS*, please contact our sales representatives in advance.

