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

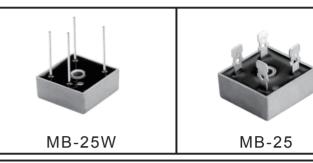
* Case: Molded plastic

* Mounting position: Any

* Weight: 30 grams

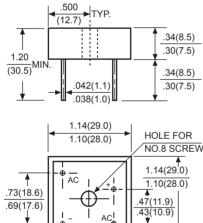
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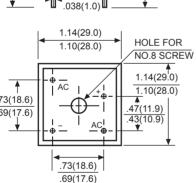
* High current capability



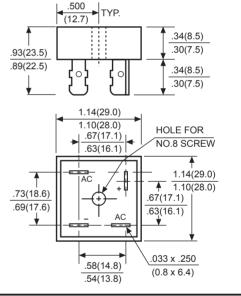
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 25005(W)	KBPC 2501(W)	KBPC 2502(W)	KBPC 2504(W)	KBPC 2506(W)	KBPC 2508(W)	KBPC 2510(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	25							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400						Amps	
Maximum Instantaneous Forward Voltage at 12.5A 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	664						A ² s	
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150						°C	

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Note: Suffix "W" for wire lead type (e.g.:KBPC25005W,KBPC2501W...etc)

REV-4.OCT.2020

CURRENT - 25 Amperes

KBPC 25005(W)

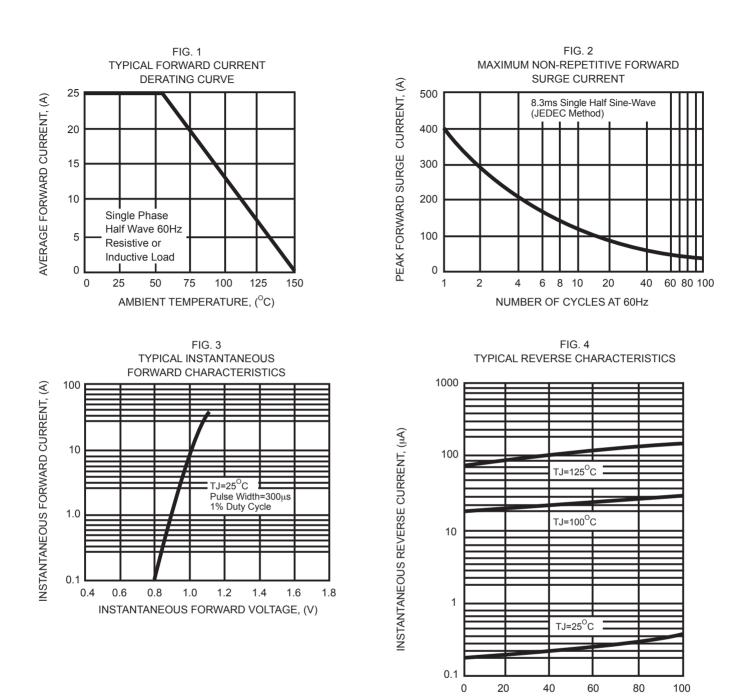
THRU

KBPC

2510(W)



RATING AND CHARACTERISTIC CURVES (KBPC25005(W) THRU KBPC2510(W))



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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