New Jersey Semi-Conductor Products, Inc.

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KBP005 THRU KBP10

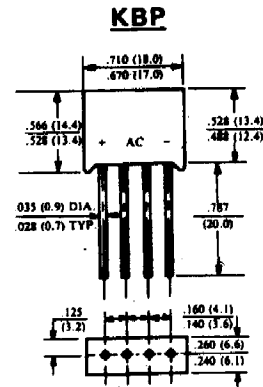## SINGLE PHASE GLASS
BRIDGE RECTIFIER

Voltage: 50 TO 1000V   CURRENT:2.0A

FEATURES

Ideal for printed circuit board

Surge overload rating: 60A peak

High case dielectric strength

MECHANICAL DATA

. Terminal: Plated leads solderable per

   MIL-STD 202E, method 208C

. Case: UL-94 Class V-0 recognized Flame Retardant Epoxy

. Polarity: Polarity symbol marked on body

. Mounting position: any

KBP

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C , unless otherwise stated,

for capacitive load, derate current by 20%)

	SYMBOL	KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	units
Maximum Recurrent Peak Reverse Voltage	V_{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{rms}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V_{dc}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified current at Ta=50°C	$I_{f(av)}$	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{fsm}	50							A
Maximum Instantaneous Forward Voltage at forward current 2.0A DC	V_f	1.1							V
Maximum DC Reverse Voltage Ta=25°C		10.0							µ A
at rated DC blocking voltage Ta=100 °C	I_r	1.0							m A
Operating Temperature Range	T_j	-55 to +125							°C
Storage and operation Junction Temperature	T_{stg}	-55 to +150							°C

NJ Semi-Conductors reserves the right to change test conditions, parameters limits and package dimensions without notice information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors