

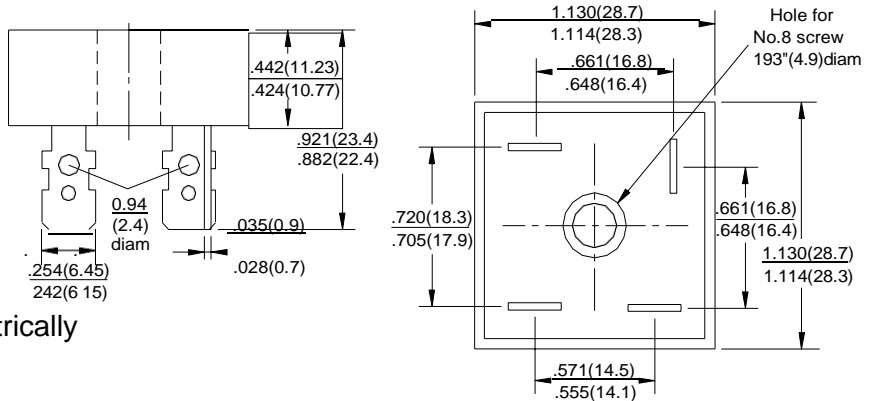
## 10A/15A/25A/35A/50A BRIDGE RECTIFIER

### FEATURES

- Surge overload 240~500A peak
- Low forward voltage drop
- Case to terminal isolation voltage 2000V

### MECHANICAL DATA

- Case: KBPC
- Case material: Metal case with electrically isolated epoxy
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Weight: 32 grams (approximate)



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	KBPC							Unit
		10005	1001	1002	1004	1006	1008	1010	
Maximum recoverable peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC block voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current @ T <sub>C</sub> =55°C	I <sub>F</sub>	KBPC10 serial: 10A; KBPC15 serial: 15A KBPC25 serial: 25A; KBPC35 serial: 35A KBPC50 serial: 50A							A
Peak forward surge current 8.3ms single half sine-wave super imposed on rated load	I <sub>FSM</sub>	KBPC10 serial: 240A; KBPC15 serial: 300A KBPC25 serial: 400A; KBPC35 serial: 400A KBPC50 serial: 500A							A
Operating temperature range	T <sub>J</sub>	-55 ~ +125							°C
Storage temperature range	T <sub>STG</sub>	-55 ~ +125							°C

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Max.	Unit	Conditions
Maximum forward voltage drop per element	V <sub>F</sub>	1.1	V	I <sub>F</sub> =5.0A for KBPC10 serial I <sub>F</sub> =7.5A for KBPC15 serial I <sub>F</sub> =12.5A for KBPC25 serial I <sub>F</sub> =17.5A for KBPC35 serial I <sub>F</sub> =25A for KBPC50 serial
Maximum reverse current	I <sub>R</sub>	10	μA	V <sub>R</sub> =V <sub>DC</sub>

Note:

1. Resistive or inductive load 60Hz;
2. For capacitive load derate by 20%.

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**Typical Characteristics**

FIG.1-MAXIMUM FORWARD SURGE CURRENT

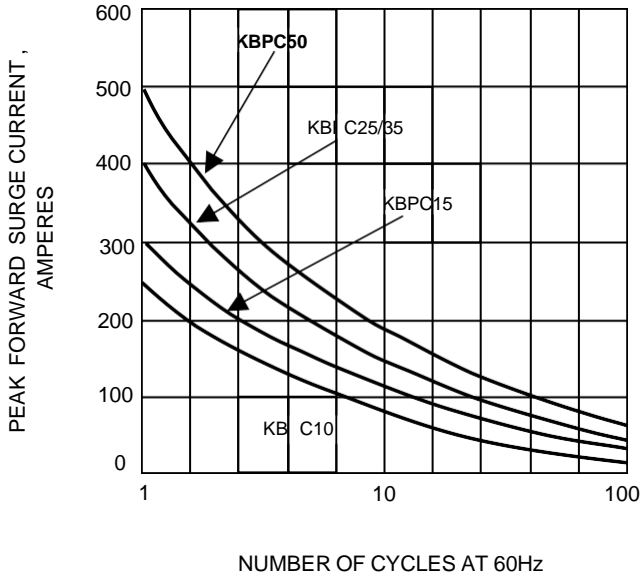


FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT

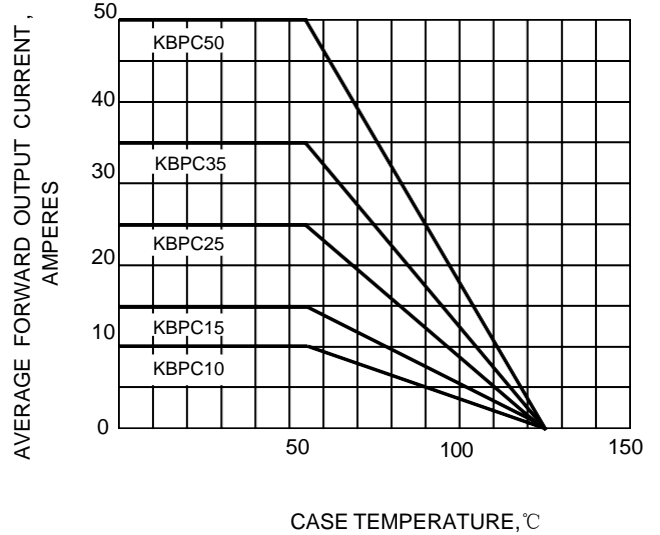


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

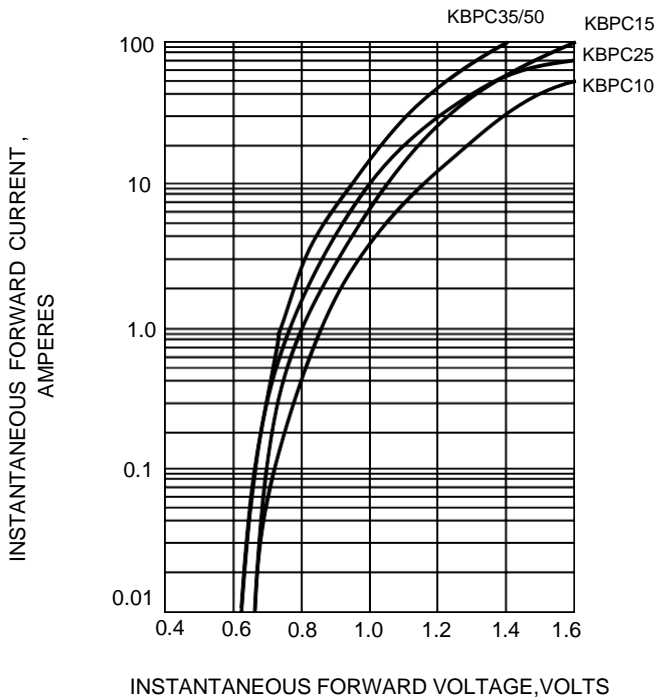


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

