

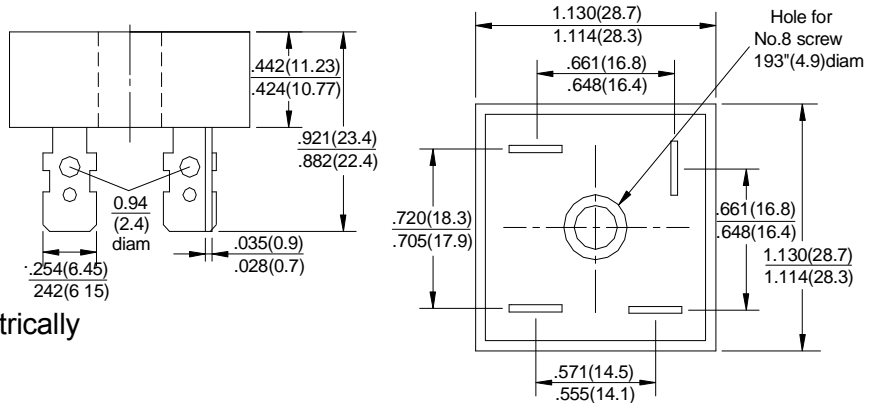
## 10A/15A/25A/35A/50A BRIDGE RECTIFIER

### 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 ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	KBPC							Unit
		10005	1001	1002	1004	1006	1008	1010	
Maximum recoverable peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC block voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current @ $T_C=55^\circ\text{C}$	$I_F$	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	$I_{FSM}$	KBPC10 serial: 240A; KBPC15 serial: 300A KBPC25 serial: 400A; KBPC35 serial: 400A KBPC50 serial: 500A							A
Operating temperature range	$T_J$	-55 ~ +125							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 ~ +125							$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Max.	Unit	Conditions
Maximum forward voltage drop per element	$V_F$	1.1	V	$I_F=5.0\text{A}$ for KBPC10 serial $I_F=7.5\text{A}$ for KBPC15 serial $I_F=12.5\text{A}$ for KBPC25 serial $I_F=17.5\text{A}$ for KBPC35 serial $I_F=25\text{A}$ for KBPC50 serial
Maximum reverse current	$I_R$	10	$\mu\text{A}$	$V_R=V_{DC}$

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

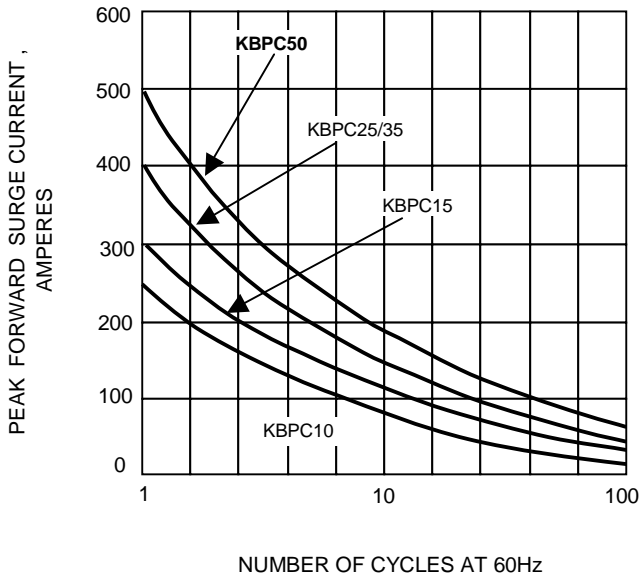


FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT

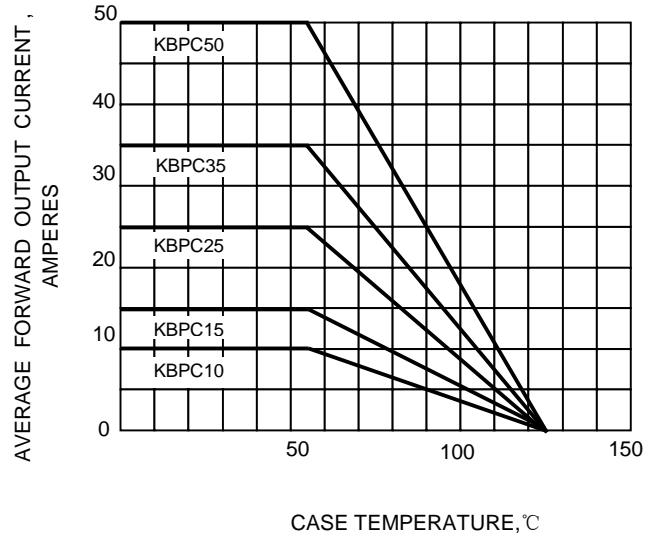


FIG.3-TYPICAL FORWARD CHARACTERISTICS

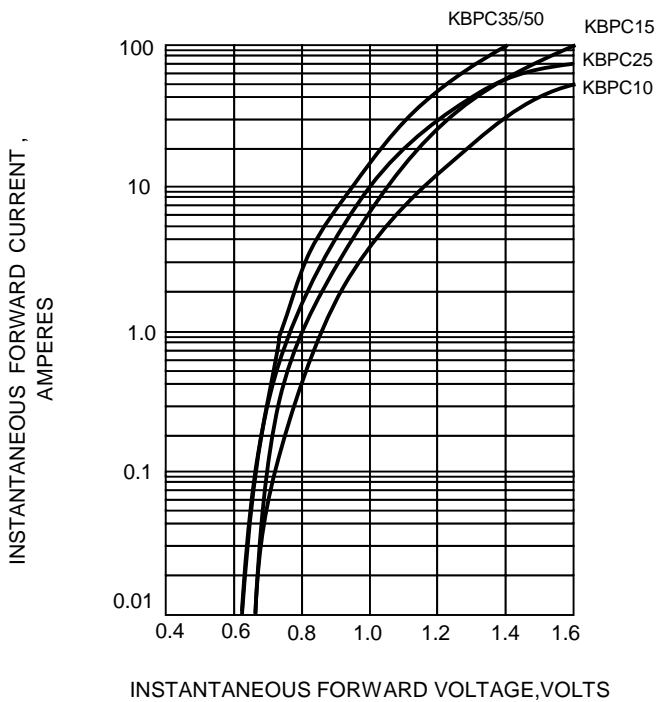


FIG.4-TYPICAL REVERSE CHARACTERISTICS

