KBPC15/25/35/50A SERIES

HIGH CURRENT BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 15/25/35/50 Ampere

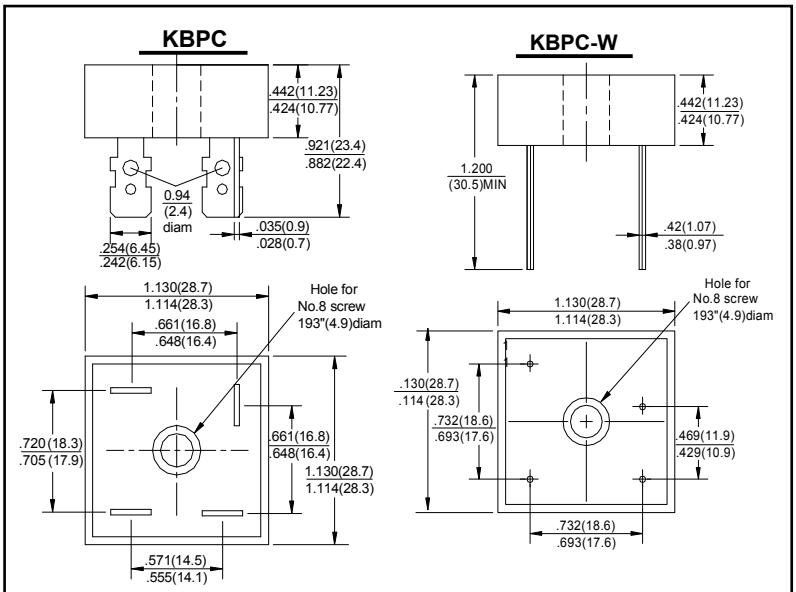
FEATURES

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop

MECHANICAL DATA

- Case : Metal Case
- Terminals: Plated Leads Solderable per MIL-STD 202, method 208
- Weight : KBPC 31.6 grams (approx.)
  KBPC-W 28.5 grams (approx.)
- Marking: Type Number

RoHS Compliant



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristics	Symbol	-005/W	-01/W	-02/W	-04/W	-06/W	-08/W	-10/W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectifier Output Current @T_C = 60°C KBPC15 KBPC25 KBPC35 KBPC50	I_O	15 25 35 50							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method) KBPC15 KBPC25 KBPC35 KBPC50	I_{FSM}	300 400 400 500							A
Forward Voltage Drop (per element) KBPC15 @I_F = 7.5A KBPC25 @I_F = 12.5A KBPC35 @I_F = 17.5A KBPC50 @I_F = 25.0A	V_{FM}	1.1							V
Peark Reverse Current @T_C = 25°C At Rated DC Blocking Voltage @T_C = 125°C	I_{RM}	10 1.0							μA mA
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to + 125							°C

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

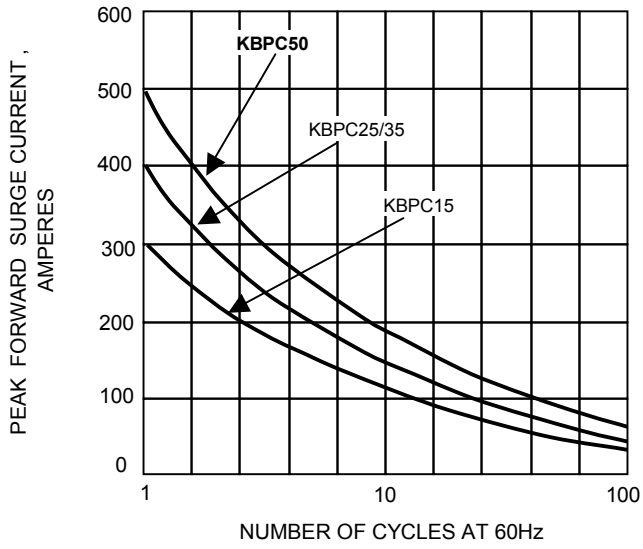

FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

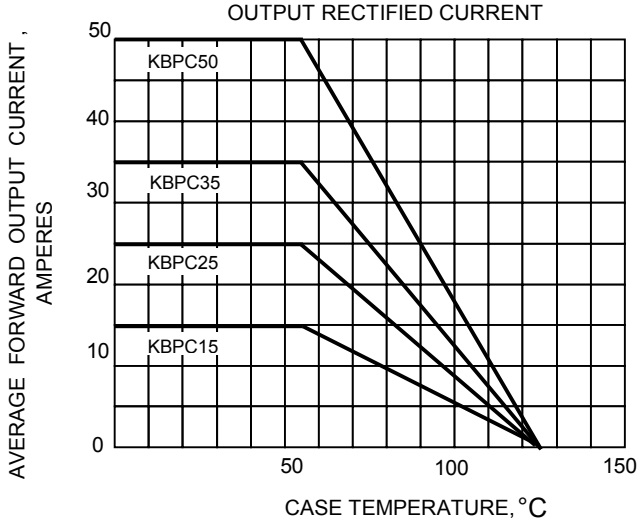

FIG.3-TYPICAL FORWARD
CHARACTERISTICS

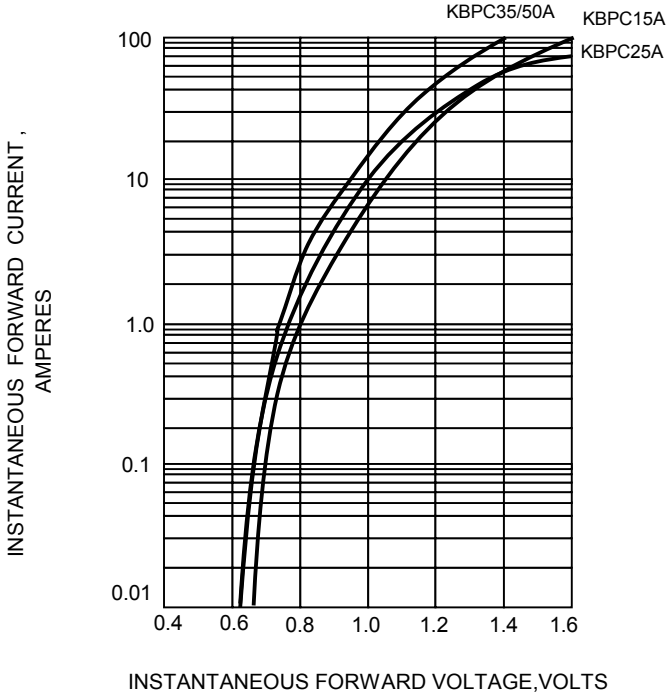

FIG.4-TYPICAL REVERSE
CHARACTERISTICS

