



**THE DATASHEET OF
KBPC5002W-G**



KBPC10005W-G Thru. KBPC5010W-G Series

Reverse Voltage: 50 to 1000V

Forward Current: 10/15/25/35/50A

RoHS Device

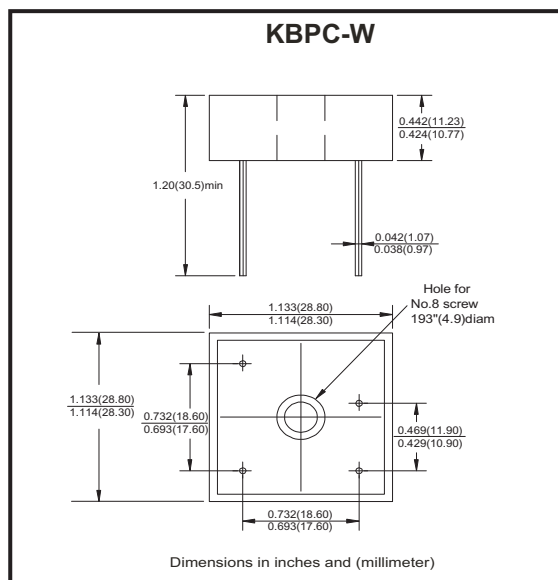


Features

- Surge overload-240~500 Amperes peak
- Low forward voltage drop
- Electrically isolated base -2000 Volts
- Materials used carries U/L recognition

Mechanical Data

- Polarit:As marked on Body
- Mounting position:Any
- Weight: 25.95grams



Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

| Parameter | Symbol | KBPC_W-G | KBPC_W-G | KBPC_W-G | KBPC_W-G | KBPC_W-G | KBPC_W-G | KBPC_W-G | Unit |
|--|-----------|----------|----------|----------|----------|----------|----------|----------|------|
| | | 10005 | 1001 | 1002 | 1004 | 1006 | 1008 | 1010 | |
| Maximum Recurrent 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 Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |

| Parameter | Symbol | KBPC10 | KBPC15 | KBPC25 | KBPC35 | KBPC50 | Unit |
|--|------------|-------------|--------|--------|--------|--------|------------|
| Maximum Average Forward Rectified Output Current @ $T_c=55^\circ C$ | $I_{(AV)}$ | 10 | 15 | 25 | 35 | 50 | A |
| Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load | I_{FSM} | 240 | 300 | 400 | 400 | 500 | A |
| Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0A Peak | V_F | 1.1 | | | | | V |
| Maximum Reverse Current at rate DC Blocking Voltage Per Element @ $T_J=25^\circ C$ | I_R | 10.0 | | | | | μA |
| Operating Temperature Range | T_J | -55 to +150 | | | | | $^\circ C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | $^\circ C$ |

Company reserves the right to improve product design , functions and reliability without notice.

Rating and Characteristics Curves (KBPC10005W-G Thru. KBPC5010W-G Series)

Fig.1 - Maximum Forward Surge Current

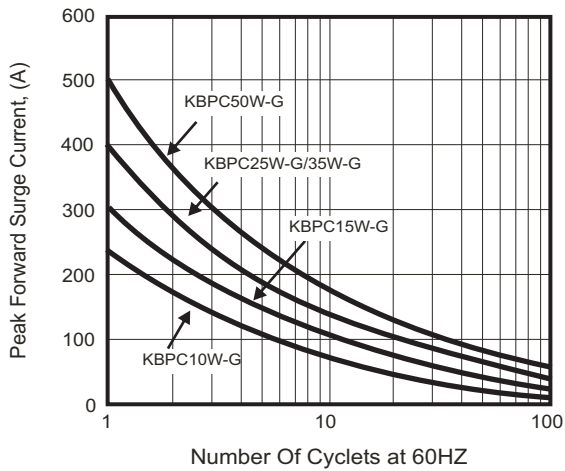


Fig.2 - Derating Curve Output Rectified Current

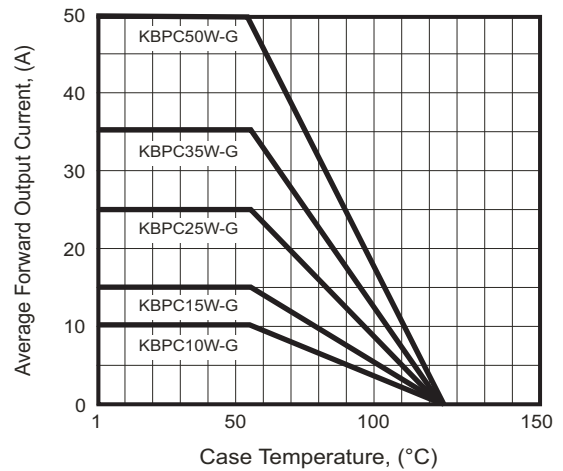


Fig.3 - Typical Forward Characteristics

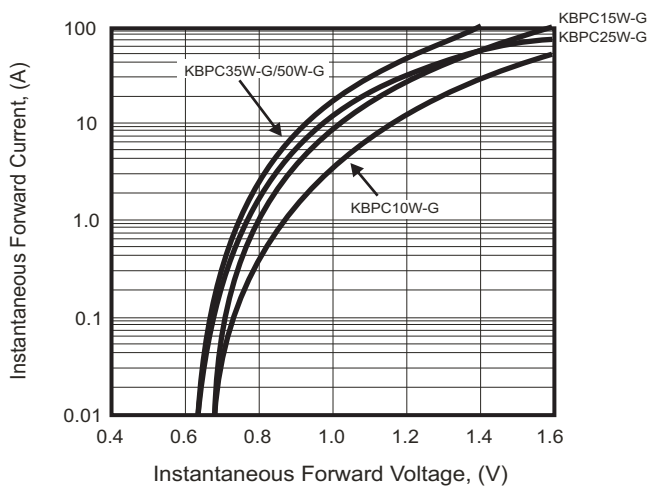
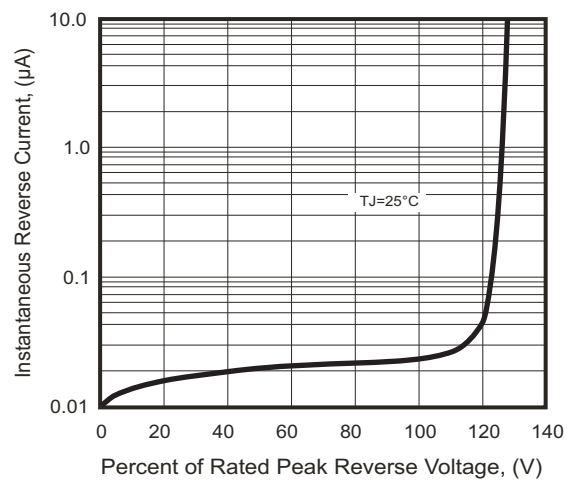


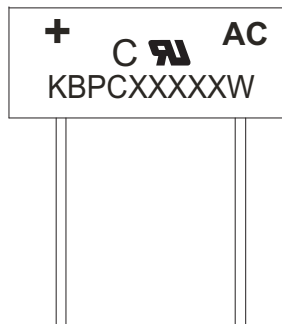
Fig.4 - Typical Forward Characteristics



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Marking Code

| Part Number | Marking code |
|--------------|--------------|
| KBPC10005W-G | KBPC10005W |
| KBPC15005W-G | KBPC15005W |
| KBPC25005W-G | KBPC25005W |
| KBPC35005W-G | KBPC35005W |
| KBPC50005W-G | KBPC50005W |
| KBPC1001W-G | KBPC1001W |
| KBPC1501W-G | KBPC1501W |
| KBPC2501W-G | KBPC2501W |
| KBPC3501W-G | KBPC3501W |
| KBPC5001W-G | KBPC5001W |
| KBPC1002W-G | KBPC1002W |
| KBPC1502W-G | KBPC1502W |
| KBPC2502W-G | KBPC2502W |
| KBPC3502W-G | KBPC3502W |
| KBPC5002W-G | KBPC5002W |
| KBPC1004W-G | KBPC1004W |
| KBPC1504W-G | KBPC1504W |
| KBPC2504W-G | KBPC2504W |
| KBPC3504W-G | KBPC3504W |
| KBPC5004W-G | KBPC5004W |
| KBPC1006W-G | KBPC1006W |
| KBPC1506W-G | KBPC1506W |
| KBPC2506W-G | KBPC2506W |
| KBPC3506W-G | KBPC3506W |
| KBPC5006W-G | KBPC5006W |
| KBPC1008W-G | KBPC1008W |
| KBPC1508W-G | KBPC1508W |
| KBPC2508W-G | KBPC2508W |
| KBPC3508W-G | KBPC3508W |
| KBPC5008W-G | KBPC5008W |
| KBPC1010W-G | KBPC1010W |
| KBPC1510W-G | KBPC1510W |
| KBPC2510W-G | KBPC2510W |
| KBPC3510W-G | KBPC3510W |
| KBPC5010W-G | KBPC5010W |



XXXXX / XXXX = Product type marking code
C = Comchip Logo

Standard Packaging

| Case Type | TRAY PACK | |
|-----------|-----------------|-------------------|
| | TRAY (pcs) | CARTON (pcs) |
| KBPC-W | 100 | 500 |

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REV: B

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