

KBPC15, 25, 35/W SERIES

15, 25, 35A HIGH CURRENT BRIDGE RECTIFIER

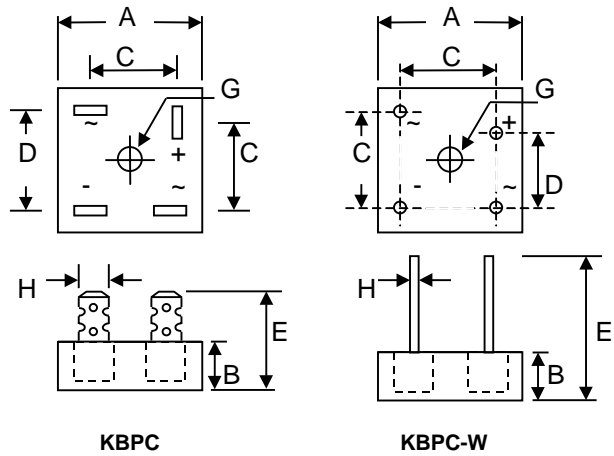
Features

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Metal Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V
- UL Recognized File # E157705

Mechanical Data

- Case: Metal Case with Electrically Isolated Epoxy
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- Weight: KBPC 31.6 grams (approx.)
KBPC-W 28.5 grams (approx.)
- Marking: Type Number

"W" Suffix Designates Wire Leads
No Suffix Designates Faston Terminals



| Dim | KBPC | | KBPC-W | |
|---------------------|-----------------------------------|-------|-------------|-------|
| | Min | Max | Min | Max |
| A | 28.40 | 28.70 | 28.40 | 28.70 |
| B | 10.97 | 11.23 | 10.97 | 11.23 |
| C | 15.70 | 16.70 | 17.10 | 19.10 |
| D | 17.50 | 18.50 | 10.90 | 11.90 |
| E | 22.86 | 25.40 | 30.50 | — |
| G | Hole for #10 screw, 5.08Ø Nominal | | | |
| H | 6.35 Typical | | 0.97Ø 1.07Ø | |
| All Dimension in mm | | | | |

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| Characteristics | Symbol | -00/W | -01/W | -02/W | -04/W | -06/W | -08/W | -10/W | Unit |
|---|---------------------|-------|-------|-------|-------------------|-------|-------|-------|------------------|
| Peak Repetitive Reverse Voltage | V _{RRM} | | | | | | | | V |
| Working Peak Reverse Voltage | V _{RWM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | |
| DC Blocking Voltage | V _R | | | | | | | | |
| RMS Reverse Voltage | V _{R(RMS)} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectifier Output Current @T _C = 60°C | I _O | | | | 15 25 35 | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method) | I _{FSM} | | | | 300 400 400 | | | | A |
| Forward Voltage Drop (per element) | V _{FM} | | | | 1.2 | | | | V |
| Peak Reverse Current At Rated DC Blocking Voltage | I _{RM} | | | | 10 1.0 | | | | μA mA |
| I ² t Rating for Fusing (t < 8.3ms) (Note 1) | I ² t | | | | 373 373 664 | | | | A ² s |

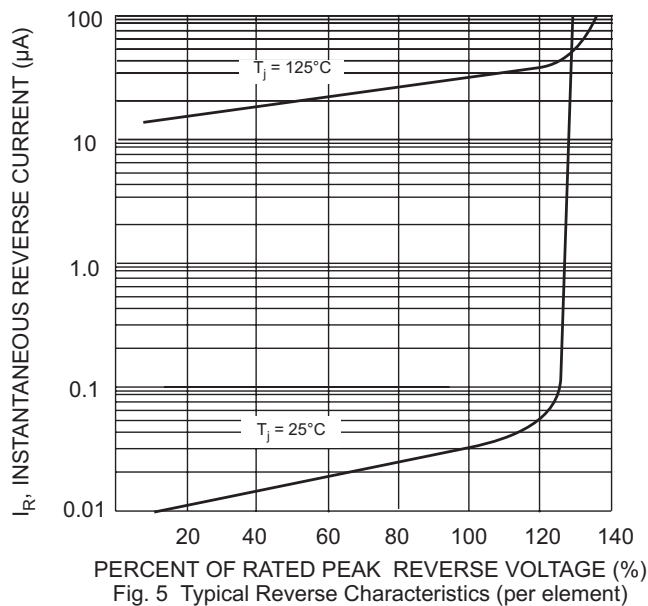
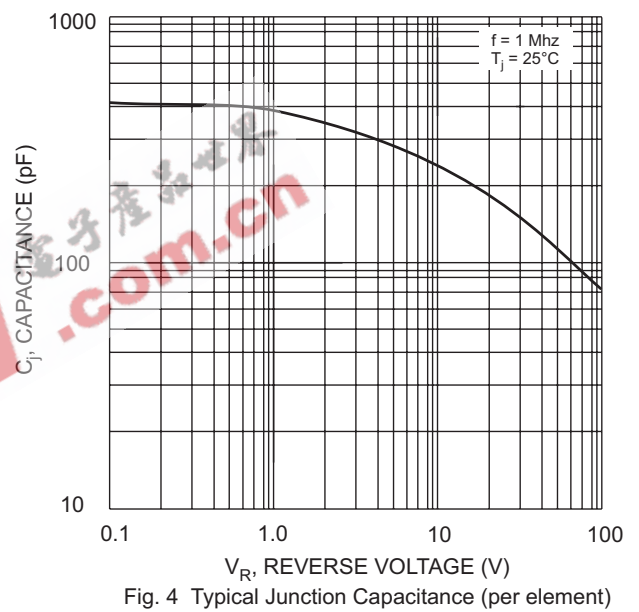
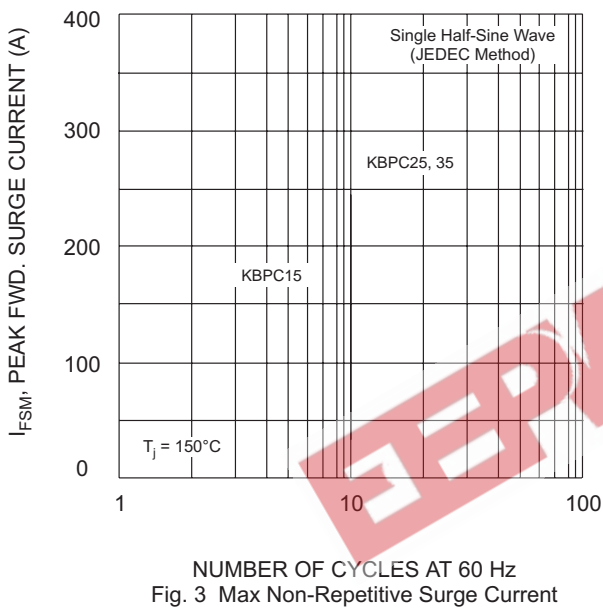
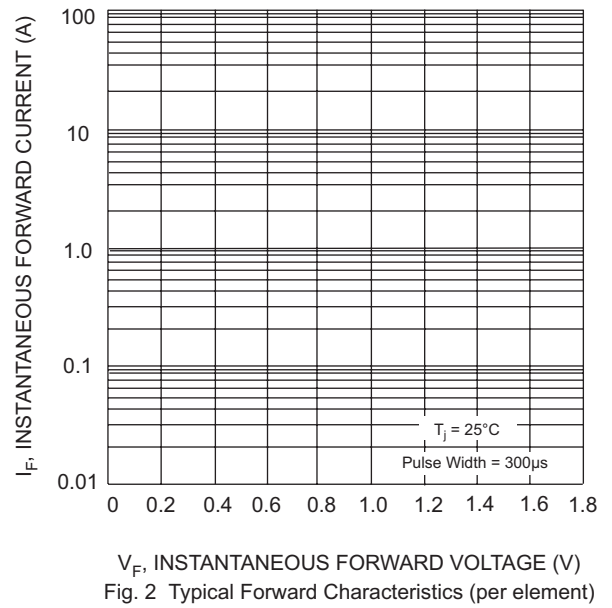
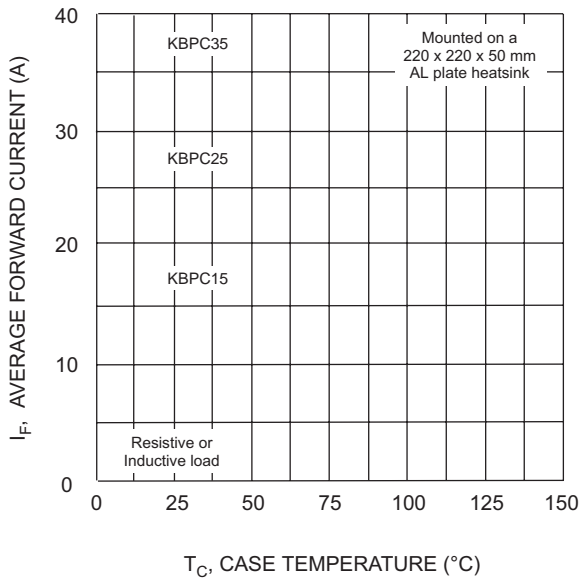
Maximum Ratings and Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

| | | | |
|---|-----------------|-------------------|--------------------|
| Typical Junction Capacitance (per element) (Note 2) | C_j | 300 | pF |
| Typical Thermal Resistance Junction to Case (per element) (Note 3) | $R_{\theta JC}$ | 6.3 3.8 2.7 | K/W |
| RMS Isolation Voltage from Case to Lead | V_{ISO} | 2500 | V |
| Operating and Storage Temperature Range | T_j, T_{STG} | -65 to +150 | $^{\circ}\text{C}$ |

* Glass passivated forms are available upon request.

- Note: 1. Measured at non-repetitive, for $t > 1\text{ms}$ and $< 8.3\text{ms}$.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Thermal resistance junction to case mounted on heatsink.

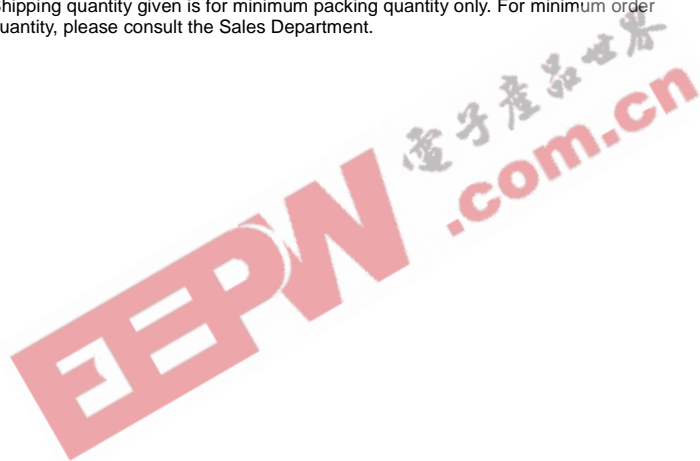
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ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|---------------|-------------------|
| KBPCxx00 | Square Bridge | 50 Units/Box |
| KBPCxx00W | Square Bridge | 50 Units/Box |
| KBPCxx01 | Square Bridge | 50 Units/Box |
| KBPCxx01W | Square Bridge | 50 Units/Box |
| KBPCxx02 | Square Bridge | 50 Units/Box |
| KBPCxx02W | Square Bridge | 50 Units/Box |
| KBPCxx04 | Square Bridge | 50 Units/Box |
| KBPCxx04W | Square Bridge | 50 Units/Box |
| KBPCxx06 | Square Bridge | 50 Units/Box |
| KBPCxx06W | Square Bridge | 50 Units/Box |
| KBPCxx08 | Square Bridge | 50 Units/Box |
| KBPCxx08W | Square Bridge | 50 Units/Box |
| KBPCxx10 | Square Bridge | 50 Units/Box |
| KBPCxx10W | Square Bridge | 50 Units/Box |

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.



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