



Micro Commercial Components



Micro Commercial Components  
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## 2KBP005 THRU 2KBP10

### Features

- Halogen free available upon request by adding suffix "-HF"
- Glass Passivate Die Construction
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Ideal for Printed Circuit Boards
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

### Maximum Ratings

## Operating Temperature: -55°C to +165°C

## Storage Temperature: -55°C to +165°C

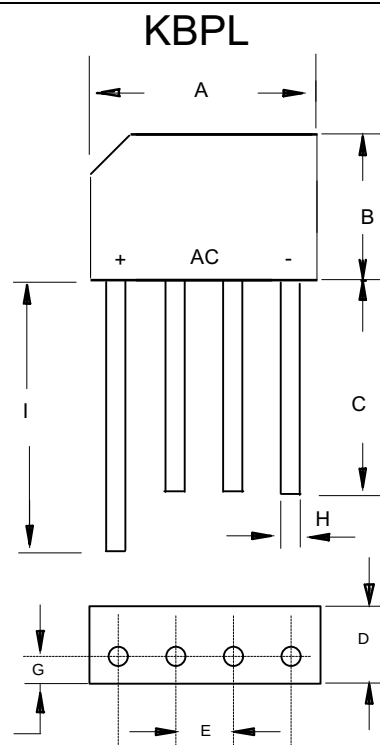
| MCC Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------------------------------|---------------------|-----------------------------|
| 2KBP005         | 50V                                    | 35V                 | 50V                         |
| 2KBP01          | 100V                                   | 70V                 | 100V                        |
| 2KBP02          | 200V                                   | 140V                | 200V                        |
| 2KBP04          | 400V                                   | 280V                | 400V                        |
| 2KBP06          | 600V                                   | 420V                | 600V                        |
| 2KBP08          | 800V                                   | 560V                | 800V                        |
| 2KBP10          | 1000V                                  | 700V                | 1000V                       |

### Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |             |                     |                                                       |
|---------------------------------------------------------|-------------|---------------------|-------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 2.0A                | $T_a = 50^\circ\text{C}$                              |
| Peak Forward Surge Current                              | $I_{FSM}$   | 60A                 | 8.3ms, half sine                                      |
| Maximum Forward Voltage Drop Per Element                | $V_F$       | 1.2V                | $I_F = 2.0\text{A per Element}$                       |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 10 $\mu$ A<br>0.5mA | $T_a = 25^\circ\text{C}$<br>$T_a = 125^\circ\text{C}$ |

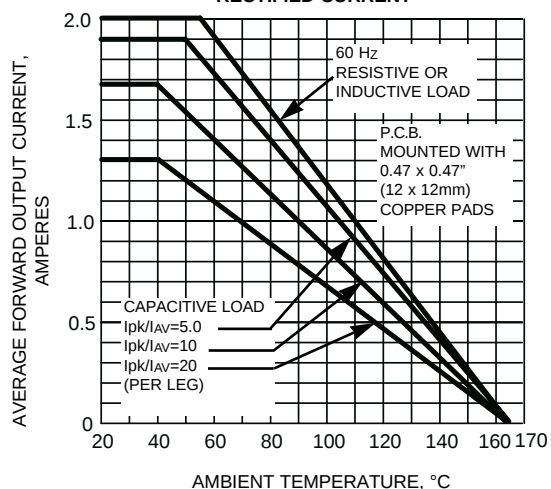
Notes: 1.High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7

## 2.0 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

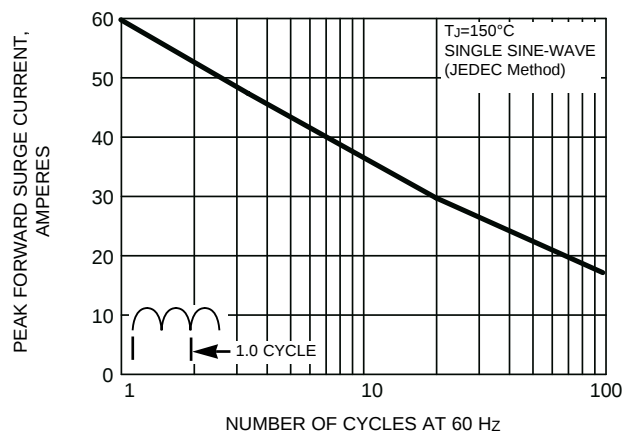


| DIM | DIMENSIONS |      |       |       |
|-----|------------|------|-------|-------|
|     | INCHES     |      | MM    |       |
| A   | MIN        | MAX  | MIN   | MAX   |
| A   | .559       | .60  | 14.22 | 15.24 |
| B   | .42        | .46  | 10.60 | 11.68 |
| C   | .50        | ---  | 12.7  | ---   |
| D   | .146       | .153 | 3.70  | 3.90  |
| E   | .142       | .161 | 3.60  | 4.10  |
| G   | .046       | .054 | 1.17  | 1.37  |
| H   | .028       | .034 | 0.70  | 0.90  |
| I   | .561       | ---  | 14.25 | ---   |

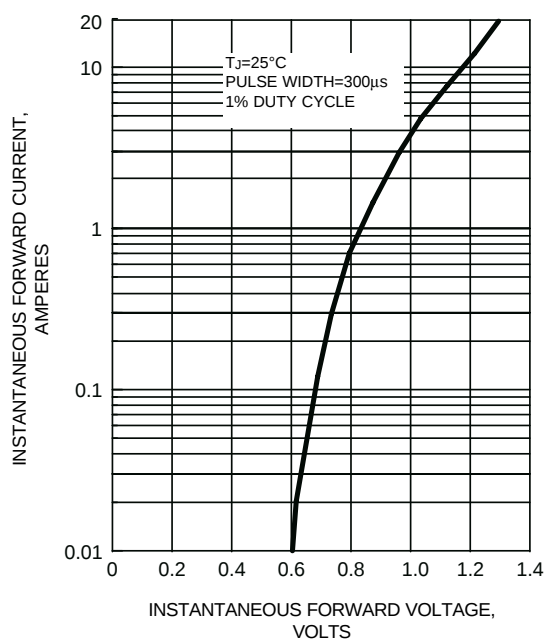
**FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT**



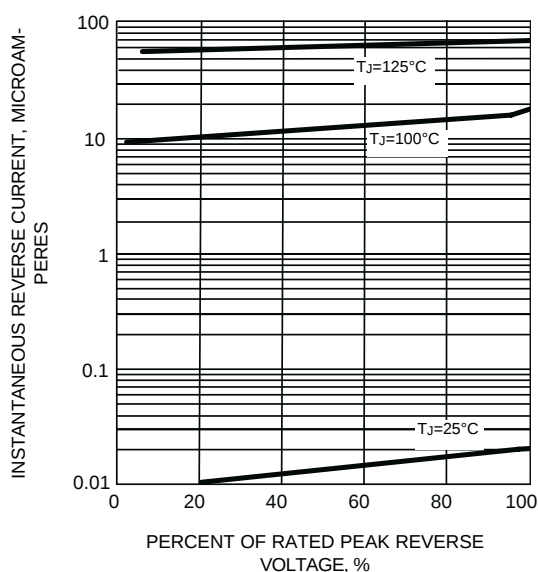
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



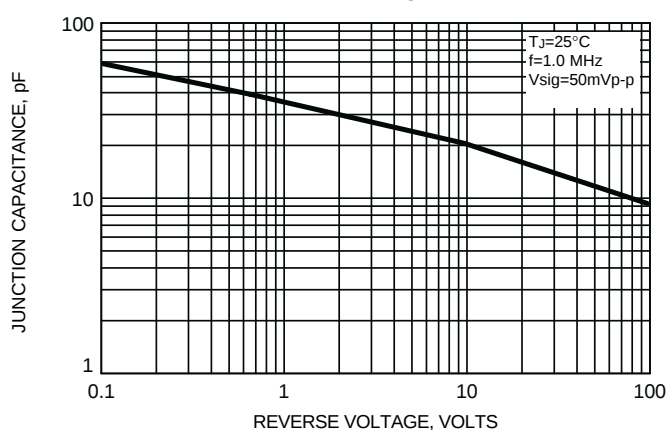
**FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG**



**FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG**



## Ordering Information :

| Device         | Packing         |
|----------------|-----------------|
| Part Number-BP | Bulk: 1Kpcs/Box |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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