

/ Descriptions

2.0A DBF  
2.0A Surface Mount Glass Passivated Bridge Rectifier, DBF thin package.

/ Features

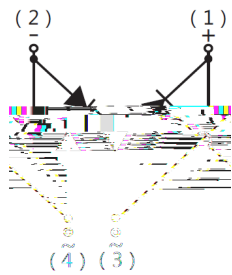
100V~1000V 2.0A

Glass Passivated Die Construction,Low leakage,High Surge Current Capability,Reverse Voltage :100 to 1000V,Forward Current: 2.0A, Designed for Surface Mount Application,HF product.

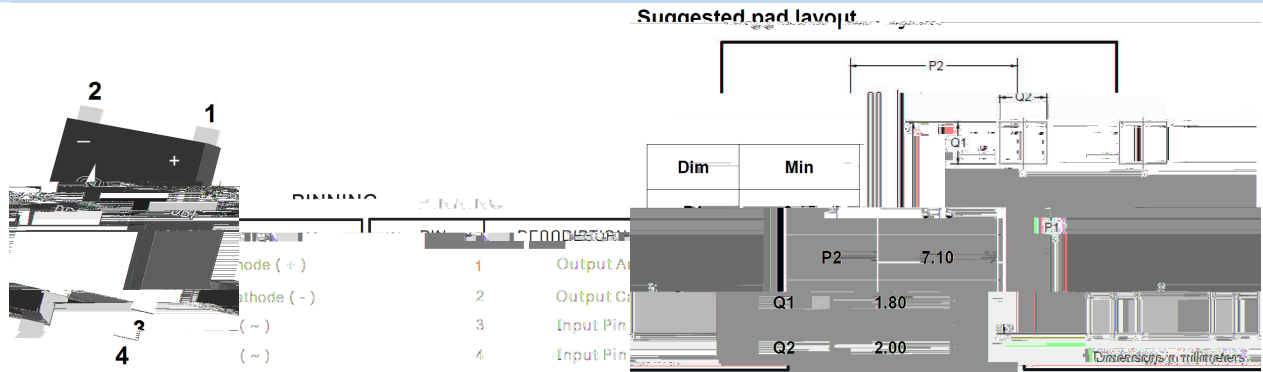
/ Applications

General purpose.

/ Equivalent Circuit



/ Pinning



/ Marking

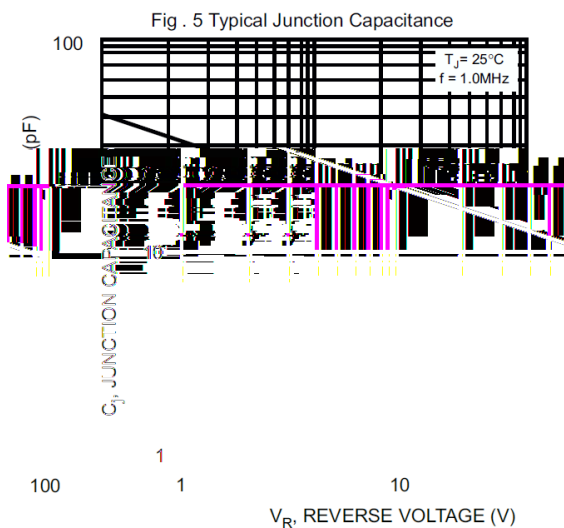
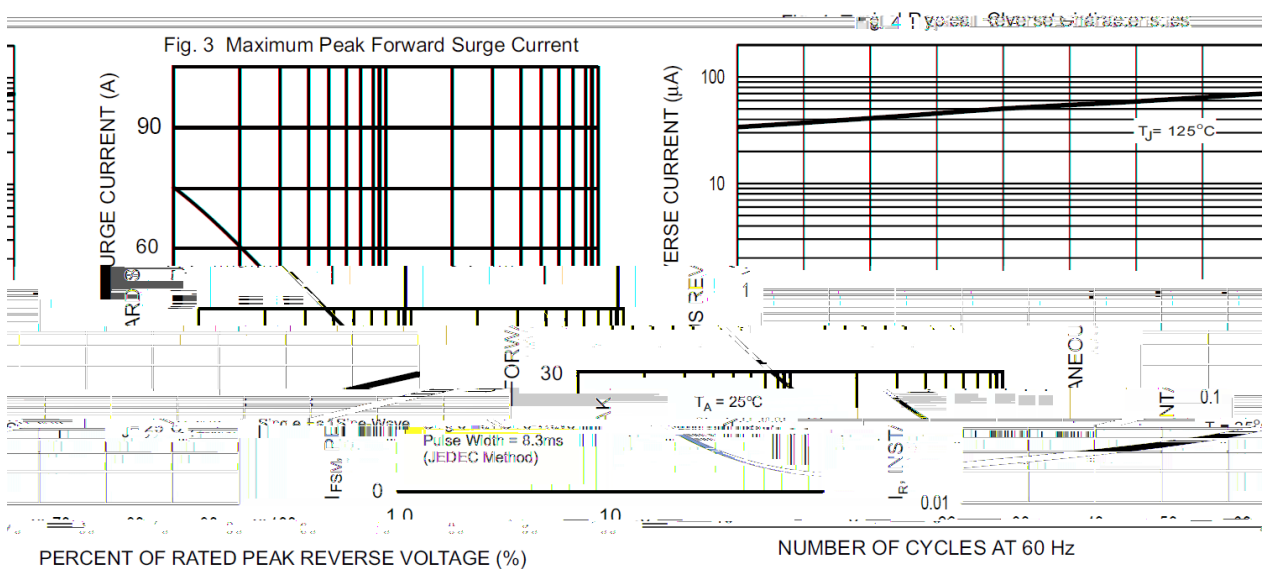
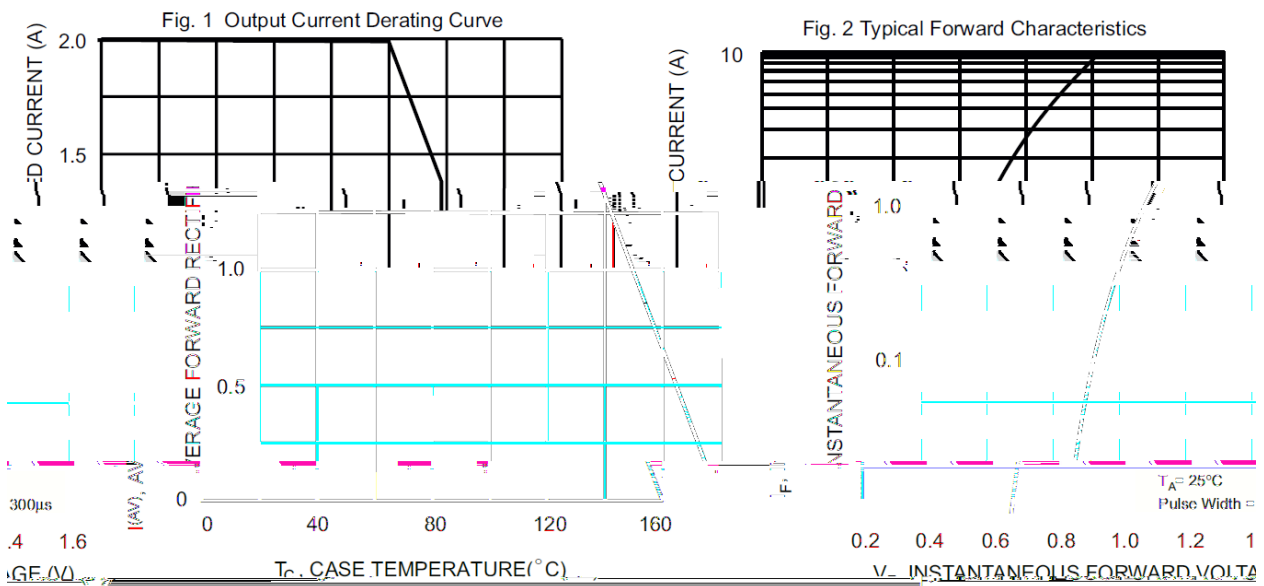
See Marking Instructions.

**DBF21~DBF210**

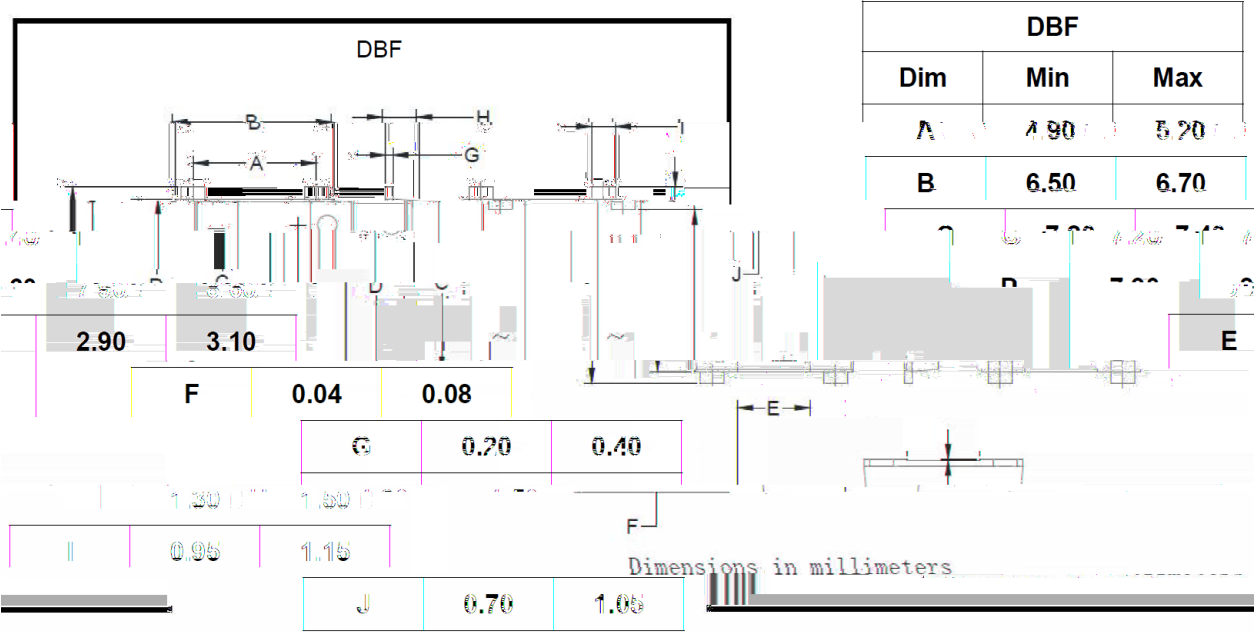
Rev.A Nov.-2023

| Parameter                                                                                                             | Symbol                             | Rating |       |       |       |       |        | Unit             |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------|--------|-------|-------|-------|-------|--------|------------------|
|                                                                                                                       |                                    | DBF21  | DBF22 | DBF24 | DBF26 | DBF28 | DBF210 |                  |
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                                | $V_{RRM}$<br>$V_{RWM}$<br>$V_{DC}$ | 100    | 200   | 400   | 600   | 800   | 1000   | V                |
| RMS Reverse Voltage                                                                                                   | $V_{RMS}$                          | 70     | 140   | 280   | 420   | 560   | 700    | V                |
| Average Rectified Output Current <sup>(Note1)</sup><br>@T=100                                                         | $I_{F(AV)}$                        | 2.0    |       |       |       |       |        | A                |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed<br>on rated load (JEDEC Method) | $I_{FSM}$                          | 75     |       |       |       |       |        | A                |
| $I^2t$ Rating for Fusing ( $t < 8.3ms$ )                                                                              | $I^2t$                             | 23.344 |       |       |       |       |        | A <sup>2</sup> s |
| Typical Junction Capacitance <sup>(Note 2)</sup>                                                                      | $C_i$                              | 27     |       |       |       |       |        | pF               |

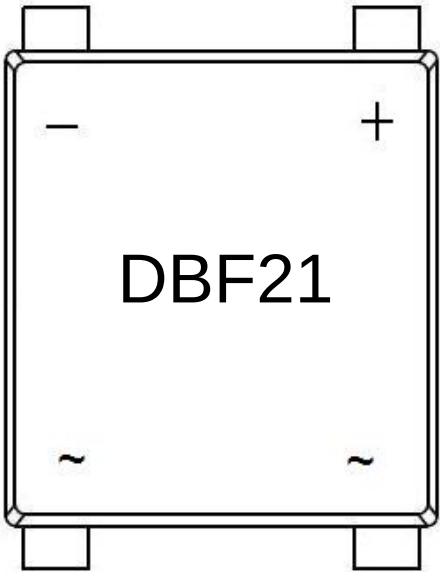
## / Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



DBF21

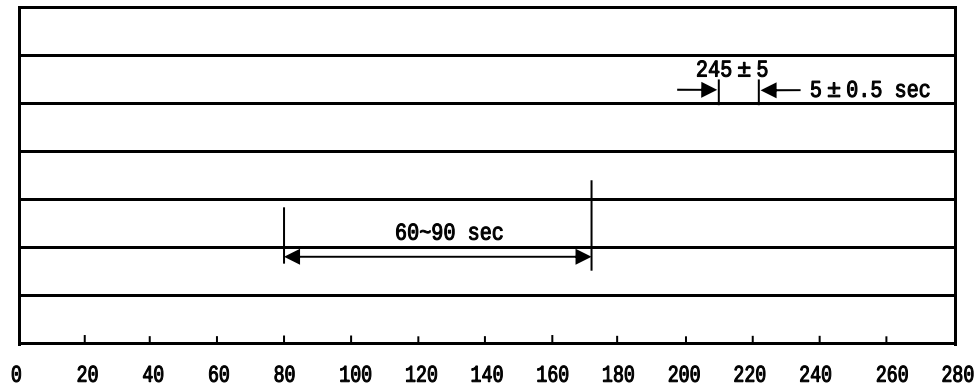
Note:

DBF21          Product Type

Marking

| Type number | Marking code |
|-------------|--------------|
| DBF21       | DBF21        |
| DBF22       | DBF22        |
| DBF24       | DBF24        |
| DBF26       | DBF26        |
| DBF28       | DBF28        |
| DBF210      | DBF210       |

## ( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- |   |       |     |           |        |                                         |
|---|-------|-----|-----------|--------|-----------------------------------------|
| 1 | 150   | 180 | 60        | 90sec; | 1.Preheating:150~180 , Time:60~90sec.   |
| 2 | 245±5 |     | 5±0.5sec; |        | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 |       | 2   | 10        | /sec.  | 3. Cooling Speed: 2~10 /sec.            |

## / Resistance to Soldering Heat Test Conditions

260±5      10±1 sec.      Temp.:260±5      Time:10±1 sec

## / Packaging SPEC.

/ REEL

| Package Type | Units      |                 |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |            |             |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|------------|-------------|
|              | Units/Reel | Reels/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Reel                              | Inner Box  | Outer Box   |
| DBF          | 3,000      | 2               | 6,000           | 6                     | 36,000          | 13"×16                            | 337×337×49 | 380×335×366 |

## / Notices