

## 1.0A Single-Phase GLass Passivated Bridge Rectifiers

Recifier Reverse Voltage 50V to 1000V



### DFM

### Features

- Glass passivated junctor
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Suge overload ratings to 50 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10 seconds at 5 lbs(2.3kg)tension

### Mechanical Data

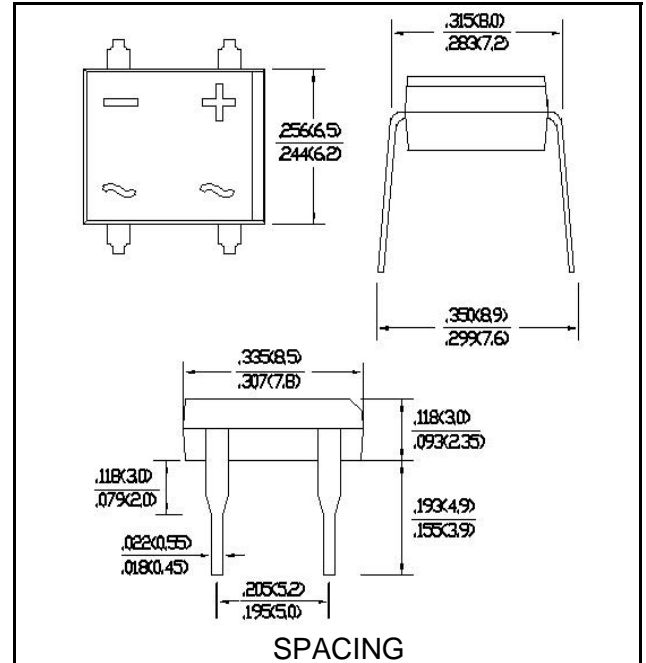
Case:Molded plastic

Terminals:Platde leads solderable per MIL-STD-750, Method 2026

Polarity:Polarity symbols molded or Marked on body

Mounting Position:Any

Weight:0.011 ounce,0.32 grams(approx)



### Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

| Parameter   | Symbol           | DF005M    | DF01M | DF02M | DF04M | DF06M | DF08M | DF10M | unit               |
|---|------------------|-----------|-------|-------|-------|-------|-------|-------|--------------------|
| Maximum repetitive peak reverse voltage   | VRRM             | 50        | 100   | 200   | 400   | 600   | 800   | 1000  | V                  |
| Maximum RMS bridge input voltage  | VRMS             | 35        | 70    | 140   | 280   | 420   | 560   | 700   | V                  |
| Maximum DC blocking voltage   | VDC              | 50        | 100   | 200   | 400   | 600   | 800   | 1000  | V                  |
| Maximum average forward rectified output current at TA=40°C                           | IF(AV)           | 1.0       |       |       |       |       |       |       | A                  |
| Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) | IFSM             | 50        |       |       |       |       |       |       | A                  |
| Rating for fusing(t<8.3ms)  | I <sup>2</sup> t | 10        |       |       |       |       |       |       | A <sup>2</sup> sec |
| Typical thermal resistance per element(1)   | ReJA             | 110       |       |       |       |       |       |       | °C/w               |
| Typical thermal resistance per element(2)   | Cj               | 25.0      |       |       |       |       |       |       | PF                 |
| Operating junction and stroage temperature range                                      | TJ, TSTG         | -55to+150 |       |       |       |       |       |       | °C                 |

### Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

| Parameter  | Symbol | DF005M | DF01M | DF02M | DF04M | DF06M | DF08M | DF10M | unit |
|--|--------|--------|-------|-------|-------|-------|-------|-------|------|
| Maximum instantaneous forward voltage drop per leg at 2.0A | VF     | 1.1    |       |       |       |       |       |       | V    |
| Maximum DC reverse current at ratde TA=25°C                | IR     | 10     |       |       |       |       |       |       | UA   |
| DC blocking voltage per element TA=125°C                   |        | 500    |       |       |       |       |       |       |      |

Notes:(1)Thermal resistance from Junction to Ambemt on P.C.board mounting.

(2)Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

## Rating and Characteristic Curves (TA=25°C Unless otherwise noted)

FIG.1-DERATING CURVE FOR

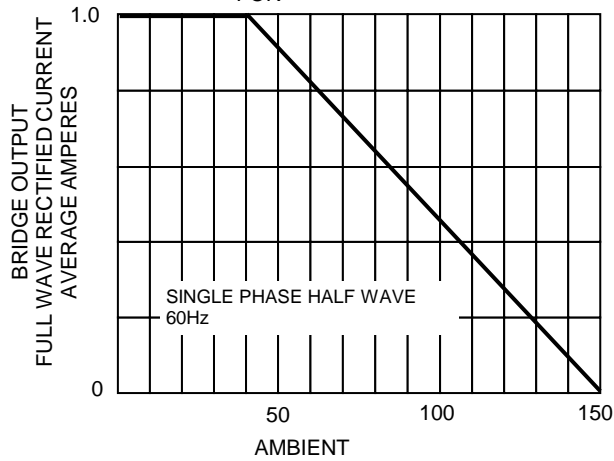


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

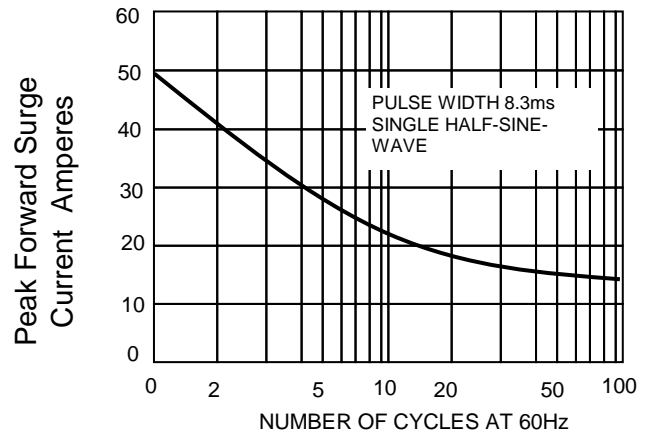


FIG.3-TYPICAL JUNCTION

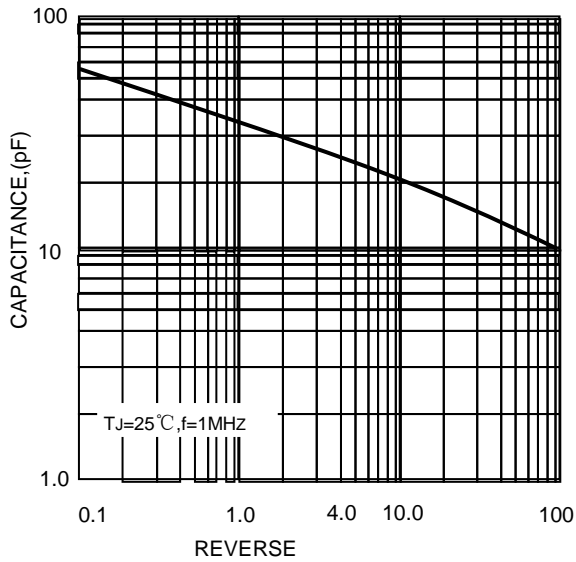


FIG.4-TYPICAL FORWARD CHARACTERISTICS

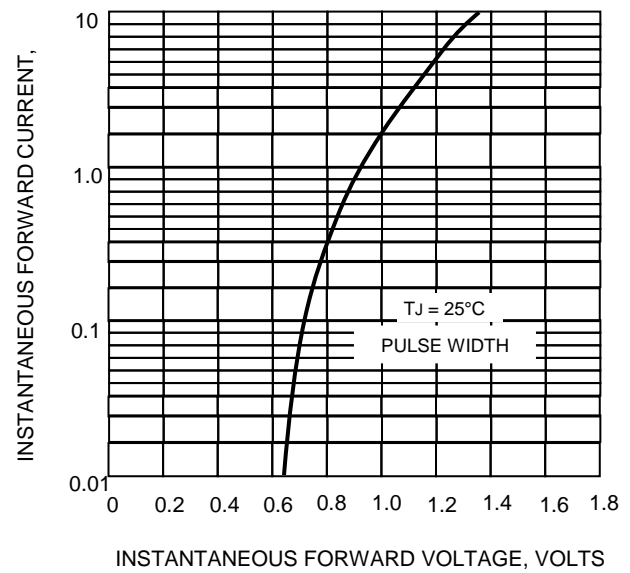


FIG.5-TYPICAL REVERSE

