

# DF005M-DF10M

Glass Passivated Bridge Rectifiers

REVERSE VOLTAGE - **50 to 1000** Volts

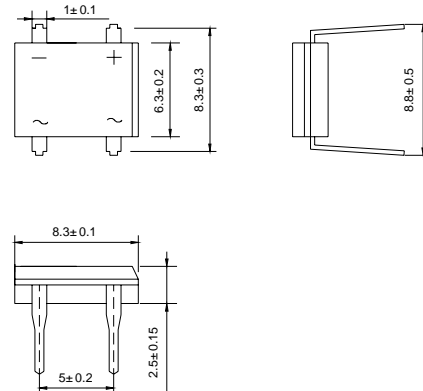
FORWARD CURRENT - **1.0** Amperes



## DB-1

### Features

- ✧ Rating to 1000V PRV
- ✧ Ideal for printed circuit board
- ✧ Low forward voltage drop, high current capability.
- ✧ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ✧ Lead Pb/Sn copper
- ✧ The plastic material has UL flammability classification 94V-0



Dimensions in millimeters

### Mechanical Data

- ✧ Polarity : As marked on Body
- ✧ Weight : 0.02 ounces, 0.38 grams
- ✧ Mounting position : Any

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	DF005M	DF01M	DF02M	DF04M	DF06M	DF08M	DF10M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS 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 Current @TA=40°C	I(AV)	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	IFSM	50							A
Maximum forward Voltage at 1.0A DC	VF	1.1							V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=125°C	IR	10 500							uA
I <sup>2</sup> t Rating for fusing (t < 8.3ms)	I <sup>2</sup> t	10.4							A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	CJ	25							pF
Typical Thermal Resistance (Note 2)	RθJA	40							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance from junction to ambient mounted on P.C.B with 0.5x0.5"(13x13mm) copper pads.

## Ratings AND Characteristic Curves

