

SEMICONDUCTOR DF005G thru DF10G

GLASS PASSIVATED BRIDGE RECTIFIERS

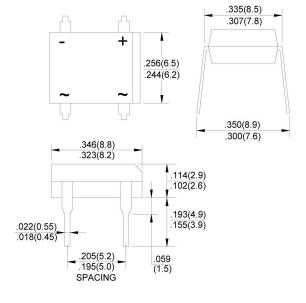
REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Amperes

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 tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- ●Polarit: As marked on Body
- ●Weight:0.02 ounces,0.38 grams
- Mounting position: Any



Dimensions in inches and (millimeters)

Pakage:DB

MAXIMUM RATINGS AND

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

For capacitive load, derate current by 20%



CHARACTERISTICS	SYMBOL	DF005G	DF01G	DF02G	DF04G	DF06G	DF08G	DF10G	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℃	I(AV)	1.0							Α
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	50							Α
Maximum Forward Voltage at 1.0A DC	VF				1.1				V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Bolcking Voltage @TJ=125℃	lR	10 500							uA
I ² t Rating for Fusing(t<8.3ms)	l ² t	10.4							A^2s
Typical Junction Capacitance Per Element(Note1)	CJ	25							pF
Typical Thermal Resistance (Note2)	Rejc	40						°C/W	
Operating Temperature Range	TJ	-55 to +150						$^{\circ}$	
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

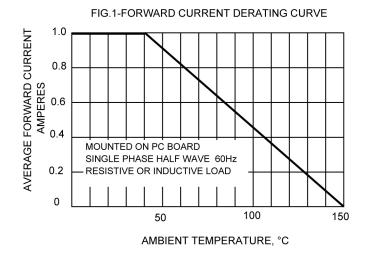
Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC

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

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SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS RATING AND CHARACTERTIC CURVES



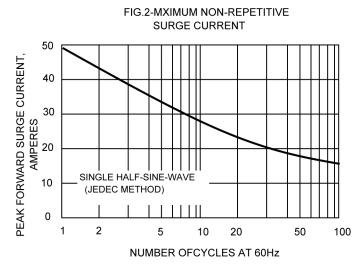
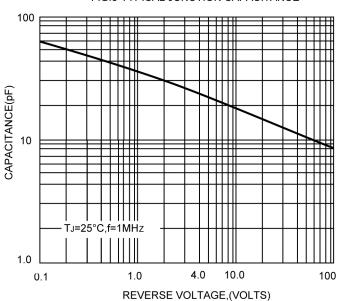


FIG.3-TYPICAL JUNCTION CAPACITANCE





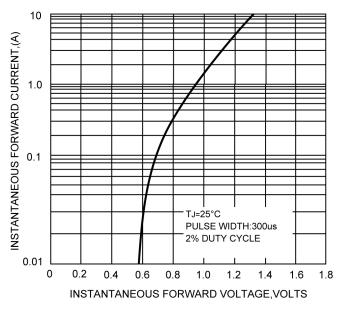
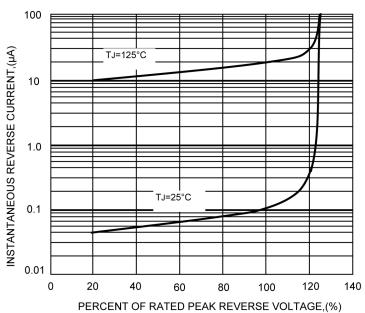


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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