# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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# **Glass Passivated Bridge Rectifiers**



# DF005-G Thru. DF10-G Reverse Voltage: 50 to 1000V Forward Current: 1.0A **RoHS** Device

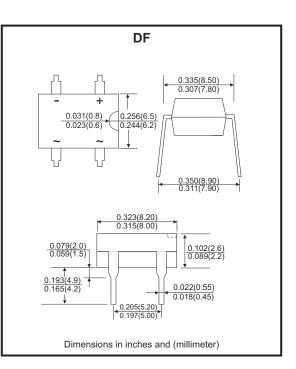


#### **Features**

- -Rating to 1000V PRV.
- -Ideal for printed circuit board.
- -Low forward voltage drop.
- -High current capability.
- -The plastic material has UL flammability classification 94V-0
- -UL recognized file # E349301

#### **Mechanical Data**

- -Polarity: As marked on Body.
- -Weight: 0.38 grams.
- -Mounting position: Any.



#### Maximum ratings and electrical characteristics

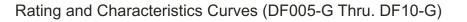
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Parameter	Symbol	DF005-G	DF01-G	DF02-G	DF04-G	DF06-G	DF08-G	DF10-G	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 @T <sub>A</sub> =40°C	I(AV)	1.0					A		
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	30					A		
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	l <sup>2</sup> t	3.735					A <sup>2</sup> s		
Maximum Forward Voltage at 1.0A DC	VF	1.1					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage@T_J = 25°C @T_J = 125°C	IR	10 500					μΑ		
Typical Junction Capacitance Per Element (Note 1)	C	25					pF		
Typical Thermal Resistance (Note 2)	Reja	40					°C/W		
Operating Temperature Range	TJ	-55 ~ +150					°C		
Storage Temperature Range	Тята	-55 ~ +150				°C			

Notes:

Measured at 1.0MHz and applied reverse voltage of 4.0V DC
Thermal resistance from junction to ambient mounted on P.C.B ,with 0.50"×0.50" (13×13mm) copper pads.

Company reserves the right to improve product design , functions and reliability without notice.



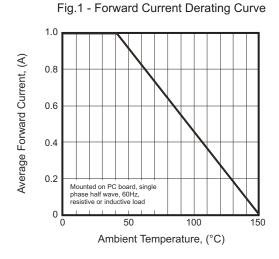


Fig.3 - Typical Junction Capacitance

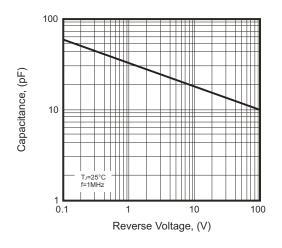
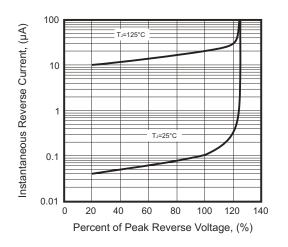


Fig.5 - Typical Reverse Characteristics



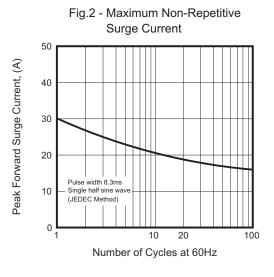
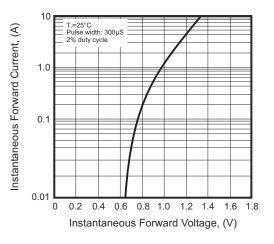


Fig.4 - Typical Forward Characteristics

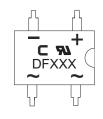


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### Marking Code

Part Number	Marking code		
DF005-G	DF005		
DF01-G	DF01		
DF02-G	DF02		
DF04-G	DF04		
DF06-G	DF06		
DF08-G	DF08		
DF10-G	DF10		



XX / XXX = Product type marking code ⊂ = Comchip Logo

## **Standard Packaging**

Case Type	TUBE PACK				
	TUBE (pcs)	BOX ( pcs )			
DF	50	2,500			

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