



DFL2005 thru DFL210

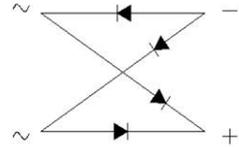
Surface Mount Glass Passivated Single Phase Bridge Rectifier
Reverse Voltage 50~1000V Output Current 2A

Features

- Glass passivated Bridge Rectifiers
- Ideal for automated placement
- Very low profile - typical height of 1.9 mm
- High surge current capability
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C/10 seconds
- Polarity:As marked on body



RoHS
COMPLIANT



DFL

Mechanical Data

- Case:DFL,Molding compound meets UL 94V-0 flammability rating
- Weight:0.3435g

Typical Applications

General purpose use in ac-to dc bridge full wave rectification for SMPS,lighting,adapter,charger,home appliances,office equipment,and telecommunication applications

Maximum Ratings (TA = 25 °C unless otherwise noted)										
Parameter	Symbol	DFL2005	DFL201	DFL202	DFL204	DFL206	DFL208	DFL210	Unit	
Maximum repetitive 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 output rectified current	Io(AV)	2.0								A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	50								A
Rating for fusing (t≤8.3ms)	I ² t	10								A ² s
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 150								°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	DFL2005	DFL201	DFL202	DFL204	DFL206	DFL208	DFL210	Unit
Maximum instantaneous forward voltage	IF=1A	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	5							µA
	TA=125°C		100							
Typical junction	4.0 V, 1 MHz	C _J	21							pF



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Thermal Characteristics (Ta=25°C unless otherwise noted)										
Parameter	Test Conditions	Symbol	DFL2005	DFL201	DFL202	DFL204	DFL206	DFL208	DFL210	Unit
Typical thermal resistance ¹⁾	junction to ambient	R _{θJA}	45							°C/W
	junction to case	R _{θJC}	15							

Note:1),The thermal resistance from junction to ambient and case,mounted on P.C.B with 13×13mm copper pads,2 OZ,FR4 PCB

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

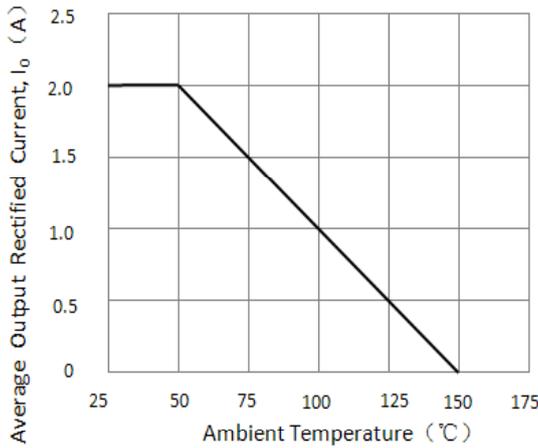


Figure 1. Forward Current Derating Curve

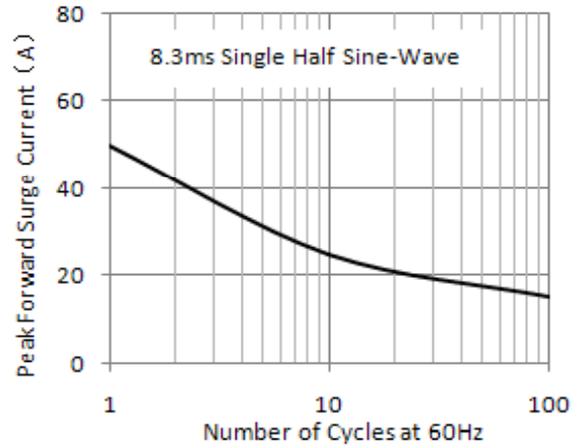


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

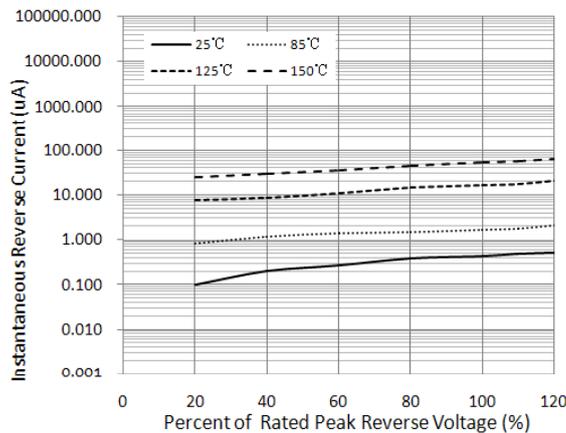


Figure 3. Typical Reverse Characteristics

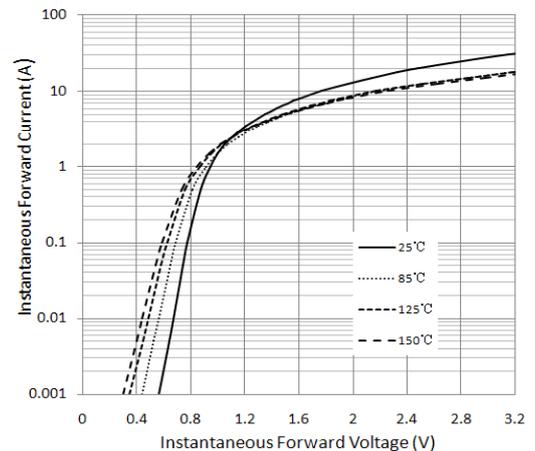


Figure 4. Typical Instantaneous Forward Characteristics

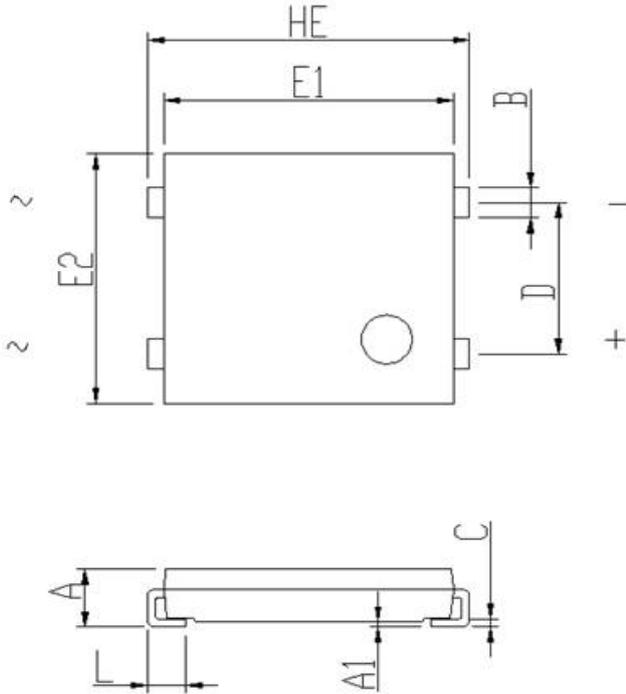


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Package Outline Dimensions

in inches (millimeters)



Package	DFL	
	MIN	MAX
Unit: mm		
A	1.7	2
A1	0.05	0.25
B	0.85	1.15
C	0.2	0.35
D	5.08 typ	
E1	8.95	9.25
E2	8.13	8.51
L	1	1.5
HE	9.8	10.3



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