

Surface Mount Glass Passivated Single Phase Bridge Rectifier Reverse Voltage 50~1000V Ountput Current 1A

RoHS

COMPLIANT

Features

- Glass passivated Standard 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

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	DFL1005	DFL101	DFL102	DFL104	DFL106	DFL108	DFL110	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	lo(AV)	1.0						Α	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	40						А	
Rating for fusing (t≪8.3ms)	l ² t	6					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	DFL1005	DFL101	DFL102	DFL104	DFL106	DFL108	DFL110	Unit
Maximum instantaneous forward voltage	IF=0.5 A	V _F	1.0					V		
Maximum DC reverse current	TA=25°C		5						μΑ	
at rated DC blocking voltage	TA=125°C	I _R	100							
Typical junction capacitance	4.0 V, 1 MHz	CJ	9			pF				

DFL



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Thermal Characteristics (TA = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	DFL1005	DFL101	DFL102	DFL104	DFL106	DFL108	DFL110	Unit
Typical thermal resistance ¹⁾	juntion to ambient	R_{\thetaJA}	42					°C/W		
rypical thermal resistance	juntion to case	$R_{ extsf{ heta}JC}$	12						C/ VV	

Note:1), The thermal resistance from junction to ambient and case, mounted on P.C.B with 13x13mm copper pads, 2 OZ, FR4 PCB

Ratings and Characteristics Curves

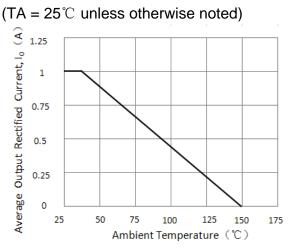


Figure 1. Forward Current Derating Curve

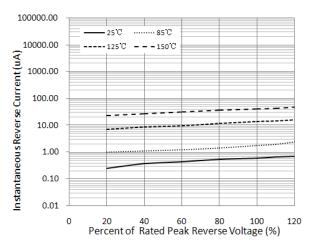


Figure 3. Typical Reverse Characteristics

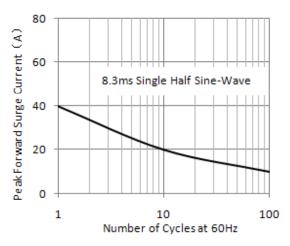


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

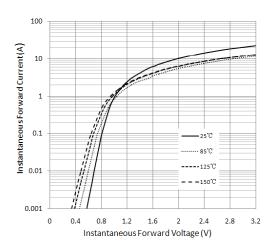


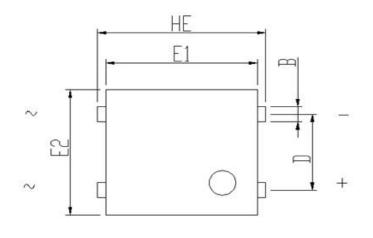
Figure 4. Typical Instantaneous Forward Characteristics



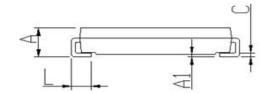
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Package Outline Dimensions

in inches (millimeters)



Package	DFL					
Unit: mm	MIN	MAX				
A	1.7	2				
A1	0.05	0.25				
В	0.85	1.15				
С	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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