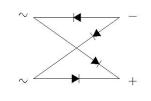


Surface Mount Glass Passivated Single Phase Bridge Rectifier Reverse Voltage 50~1000V Ountput Current 3A

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





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	DFL3005	DFL301	DFL302	DFL304	DFL306	DFL308	DFL310	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) 3.0					Α					
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	60				Α				
Rating for fusing (t≤8.3ms)	l ² t	15			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	DFL3005	DFL301	DFL302	DFL304	DFL306	DFL308	DFL310	Unit
Maximum instantaneous forward voltage	IF=1.5A	V _F	1.1							Volts
Maximum DC reverse	TA=25°C	I _R	5							μА
current at rated DC blocking voltage	TA=125°C		100							
Typical junction capacitance	4.0 V, 1 MHz	С	21							pF



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Thermal Characteristics (TA = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	DFL3005	DFL301	DFL302	DFL304	DFL306	DFL308	DFL310	Unit
Typical thermal	juntion to ambient	$R_{\theta JA}$	45							°C/W
resistance ¹⁾	juntion to case	$R_{ heta JC}$	15							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

(TA = 25°C unless otherwise noted)

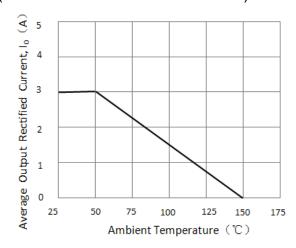


Figure 1. Forward Current Derating Curve

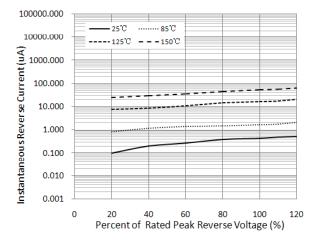


Figure 3. Typical Reverse Characteristics

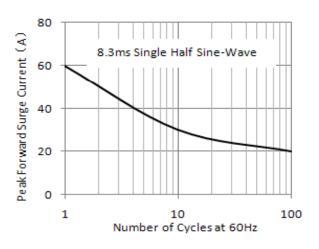


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

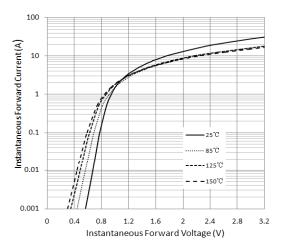


Figure 4. Typical Instantaneous Forward Characteristics

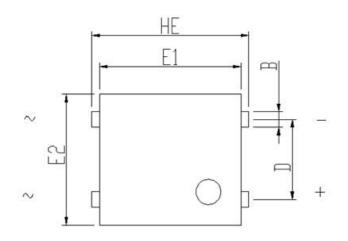
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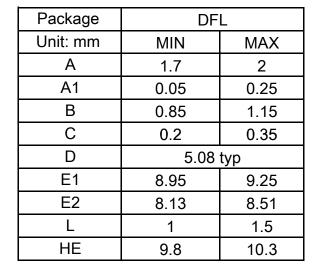


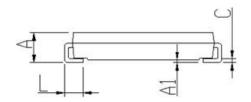
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Package Outline Dimensions

in inches (millimeters)









Surface Mount Glass Passivated Single Phase Bridge Rectifier Reverse Voltage 50~1000V Ountput Current 3A

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