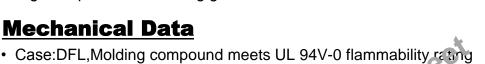
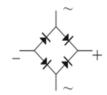


Surface Mount Glass Passivated Single-Phase Bridge Rectifiers Reverse Voltage 200~1000V Output Current 1.0A

Features

- · Glass passivated Bridge Rectifiers
- · Ideal for automated placement
- · Very low profile typical body height 1.5 mm
- High surge current capability
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C/10 seconds





DFL J

Typical Applications

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

Maximum Ratings (TA = 25 °C unless otherwise noted)								
Parameter	Symbol	DFL1002J	DFL1006J	DFL1008J	DFL1010J	Unit		
Maximum repetitive peak reverse voltage	VRRM	200	600	800	1000	V		
Maximum RMS voltage	VRMS	140	420	560	700	V		
Maximum DC blocking voltage	VDC	200	600	800	1000	V		
Maximum average forward rectified output current	Io(AV)	1.0				Α		
Peak forward surge current 8.3 ms single half sinewave superimposed on rated load	IFSM		40					
Rating for fusing (t≤8.3ms)	l ² t	6.7				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	DFL1002J	DFL1006J	DFL1008J	DFL1010J	Unit	
Maximum instantaneous forward	IF=0.5A,Ta=25℃	V _F	1.0				Volts	
voltage	IF=1.0A,Ta=25℃	٧F	1.1					
Maximum DC reverse current at	Ta=25°C		5				μA	
rated DC blocking voltage	Ta=125°C	I _R	50					
Typical rayona a raceyon, time	$I_F=0.5A, I_R=1.0A,$	+	2				uS	
Typical reverse recovery time	I _{rr} =0.25A	t _{rr}						
Typical junction capacitance	4.0 V, 1 MHz	CJ	10.5				pF	

Thermal Characteristics (TA=25℃ unless otherwise noted)								
Parameter	Test Conditions	Symbol	DFL1002J	DFL1006J	DFL1008J	DFL1010J	Unit	
Typical the man of an eleten and	juntion to ambient	$R_{\theta JA}$	29			°C/W		
Typical thermal resistance ¹⁾	juntion to case	$R_{\theta JC}$	9				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



Surface Mount Glass Passivated Single-Phase Bridge Rectifiers
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Ratings and Characteristics Curves

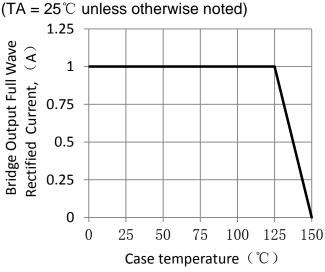


Figure 1. Forward Current Derating Curve

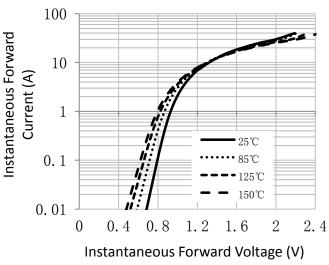


Figure 3. Typical Instantaneous Forward Characteristics

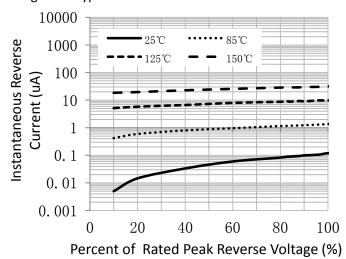


Figure 5. Typical Reverse Characteristics

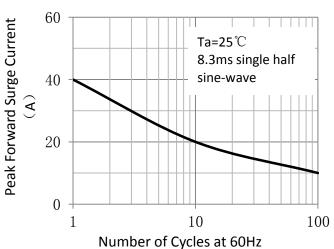


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

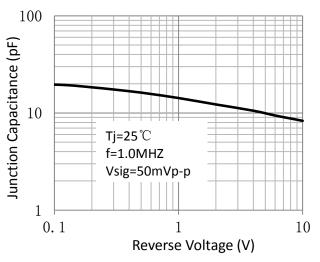


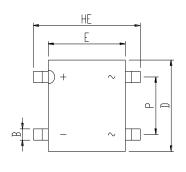
Figure 4. Typical Junction Capacitance



Surface Mount Glass Passivated Single-Phase Bridge Rectifiers
Reverse Voltage 200~1000V Output Current 1.0A

Package Outline Dimensions

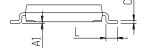
DFLJ



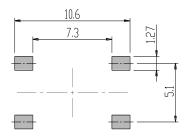


DFL J

		unit:mm			unit:inch
Dim	Min	Max	Dim	Min	Max
Α	1.40	1.60	Α	0.055	0.063
A1	0.05	0.20	A1	0.002	0.008
В	1.02	1.20	В	0.040	0.047
О	0.22	0.33	С	0.009	0.013
D	8.00	8.30	D	0.315	0.327
Е	7.10	7.40	Е	0.280	0.291
HE	9.70	10.20	HE	0.382	0.402
Ĺ	0.75	1.25	Ĺ	0.030	0.049
Р	5.00	5.20	Р	0.197	0.205



Footprint



www.goodark.com 3/4 2017.04-Rev.A



Surface Mount Glass Passivated Single-Phase Bridge Rectifiers Reverse Voltage 200~1000V Output Current 1.0A

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www.goodark.com 4/4 2017.04-Rev.A