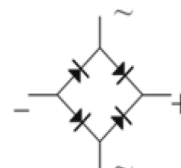


Features

- 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



Mechanical Data

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

Typical Applications

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

Maximum Ratings (TA = 25 °C unless otherwise noted)						
Parameter	Symbol	DFL2002J	DFL2006J	DFL2008J	DFL2010J	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)	2.0				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	60				A
Rating for fusing (t≤8.3ms)	I ² t	15.0				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	DFL2002J	DFL2006J	DFL2008J	DFL2010J	Unit
Maximum instantaneous forward voltage	IF=1.0A,Ta=25°C	VF	1.0				Volts
	IF=2.0A,Ta=25°C		1.1				
Maximum DC reverse current at rated DC blocking voltage	Ta=25°C	IR	5				μA
	Ta=125°C		50				
Typical reverse recovery time	IF=0.5A,IR=1.0A, I _{rr} =0.25A	t _{rr}	2				uS
Typical junction capacitance	4.0 V, 1 MHz	C _J	16				pF

Thermal Characteristics (TA=25℃ unless otherwise noted)							
Parameter	Test Conditions	Symbol	DFL2002J	DFL2006J	DFL2008J	DFL2010J	Unit
Typical thermal resistance ¹⁾	junction to ambient	R _{θJA}	31				℃/W
	junction to case	R _{θJC}	9				

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)

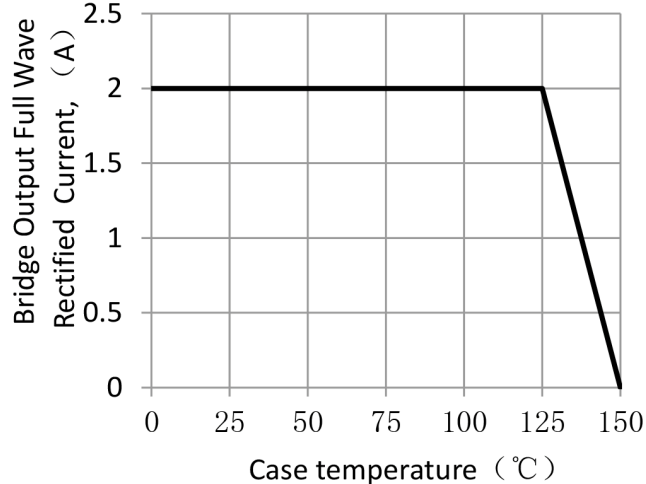


Figure 1. Forward Current Derating Curve

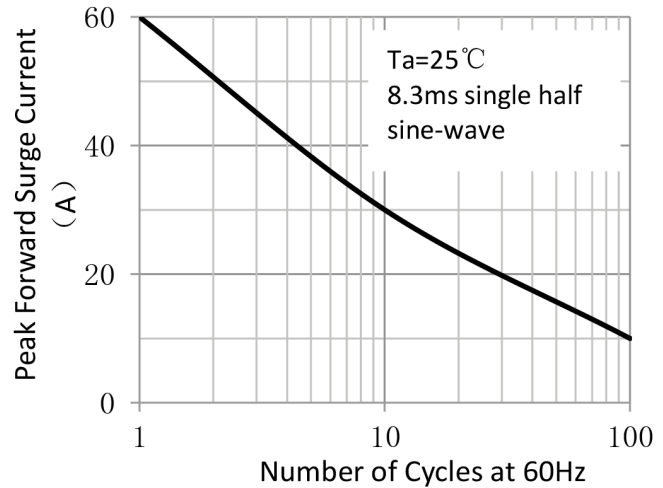


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

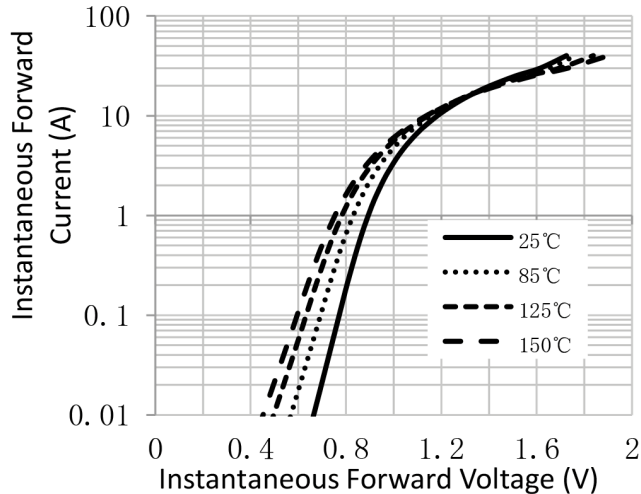


Figure 3. Typical Instantaneous Forward Characteristics

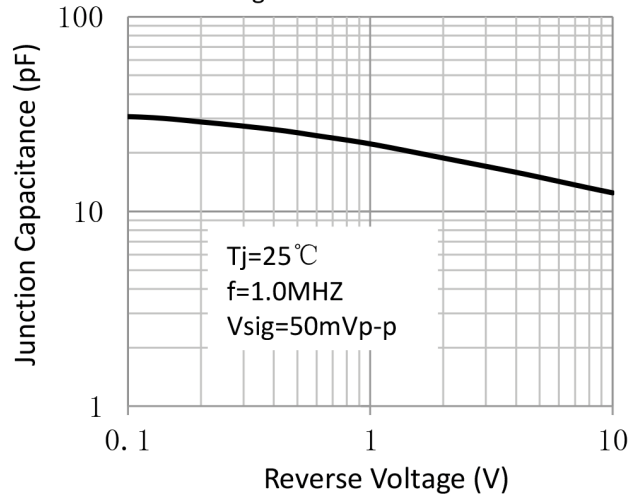


Figure 4. Typical Junction Capacitance

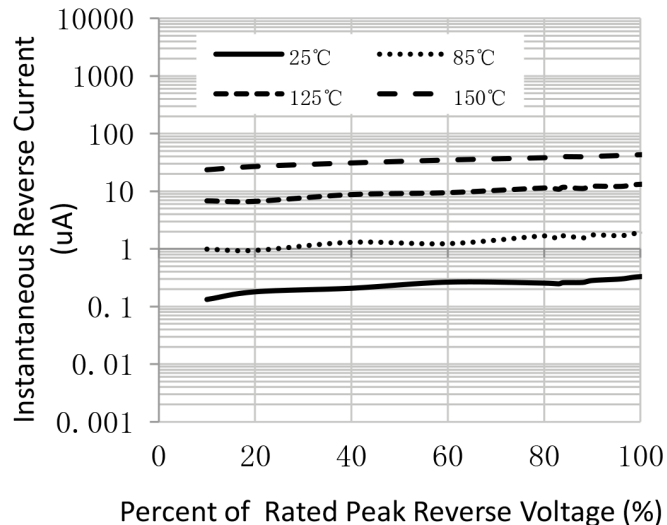
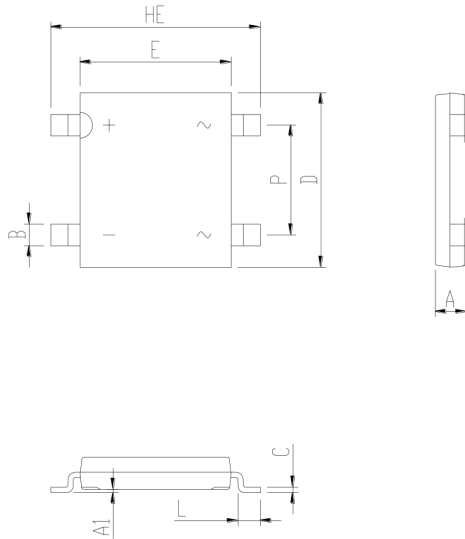


Figure 5. Typical Reverse Characteristics

Package Outline Dimensions

DFLJ



DFL J

Dim	unit:mm		Dim	unit:inch	
	Min	Max		Min	Max
A	1.40	1.60	A	0.055	0.063
A1	0.05	0.20	A1	0.002	0.008
B	1.02	1.20	B	0.040	0.047
C	0.22	0.33	C	0.009	0.013
D	8.00	8.30	D	0.315	0.327
E	7.10	7.40	E	0.280	0.291
HE	9.70	10.20	HE	0.382	0.402
L	0.75	1.25	L	0.030	0.049
P	5.00	5.20	P	0.197	0.205

Footprint

