

RDBF31A THRU RDBF310A

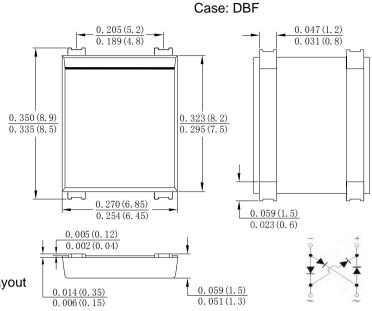
Single Phase 3.0 AMP Fast Glass Passivated Bridge Rectifier

Features

- Glass Passivated Die Construction
- Low leakage
- · Ideal for printed circuit board
- Surge overload rating-100A peak
- Designed for Surface Mount Application
- · Plastic Material-UL Flammability 94V-0

Mechanical Data

- · Case: DBF, molded plastic
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- · Polarity: As Marked on Case
- · Mounting Position: Reference Mounting PAD Layout
- Marking:Type Number



dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

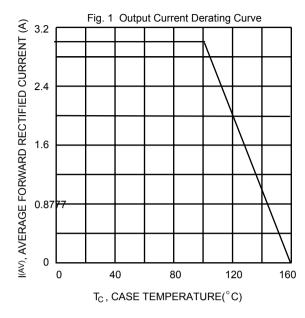
TYPE NUMBER	SYMBOL	RDBF31A	RDBF32A	RDBF34A	RDBF36A	RDBF38A	RDBF310A	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	100	200	400	600	800	1000	V
	VRWM							
	VDC							
RMS Reverse Voltage	VRMS	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T _C =100°C	IF(AV)	3.0					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	90					А	
I ² t Rating for Fusing (t < 8.3ms)	l²t	41.5						A ² s
Forward Voltage per element @IF=3.0A	VFM	1.3						V
Maximum reverse recovery time (Note 2)	T _{RR}	150 250 500				500	ns	
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃	lr	5.0 100						uA
Typical Junction Capacitance (Note 3)	Сл		55		46	;	38	pF
Typical Thermal Resistance (Note 1)	Reja	15						°C/W
	Rejc	5						
Operating and Storage Temperature Range	TJ,TsTG	-55to+150						$^{\circ}\!\mathbb{C}$

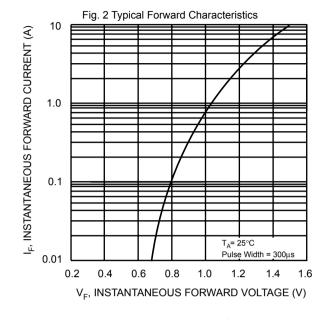
Note: 1. Mounted on 15 mm*12 mm*1.6mmAL pad attach 195 mm*110 mm*10 mm steel plate

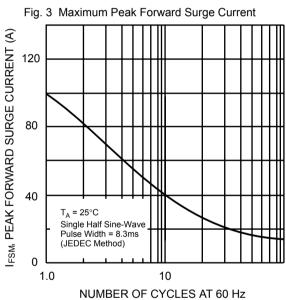
- 2. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

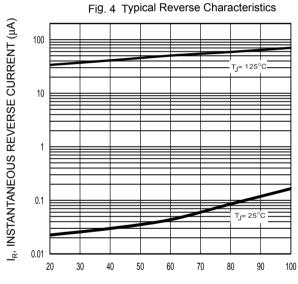
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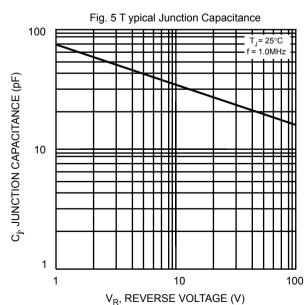
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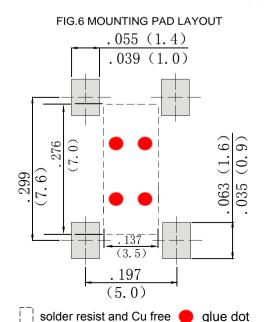








PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



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