

RDB201S THRU RDB207S

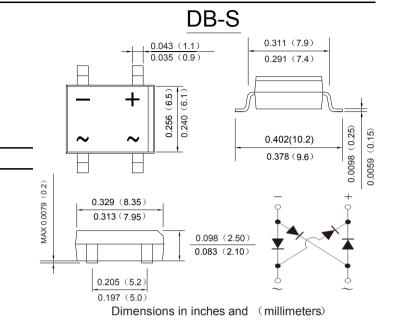
SINGLE PHASE 2.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- · Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: DB-S, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version



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	RDB 201S	RDB 202S	RDB 203S	RDB 204S	RDB 205S	RDB 206S	RDB 207S	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm		100	200	400	600	800	1000	
	VRWM	50							V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=100°C	IF(AV)	2.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	60							А
I ² t Rating for Fusing (t < 8.3ms)	l²t	14.94							A ² s
Forward Voltage per element @IF=2.0A	Vfm	1.3							V
Peak Reverse Current @T₄=25℃ At Rated DC Blocking Voltage @T₄=125℃	lr	5.0 200							uA
Maximum reverse recovery time (Note 3)	T _{RR}	150			250	500		ns	
Typical Junction Capacitance per leg (Note 2)	CJ	25							pF
Typical Thermal Resistance per leg	Reja	40							°C/W
	Rejl	15							
Operating and Storage Temperature Range	TJ,TSTG	-55to+150							°C

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad. 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



RDB201S THRU RDB207S

Fig. 1 Output Current Derating Curve

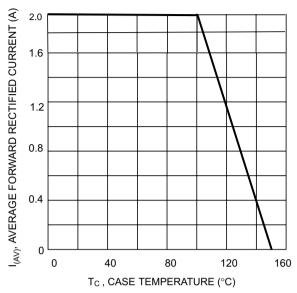


Fig. 3 Maximum Peak Forward Surge Current (per leg)

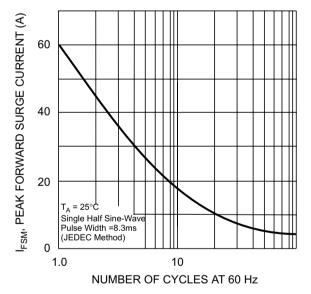


Fig. 5 Mounting Pad Layout

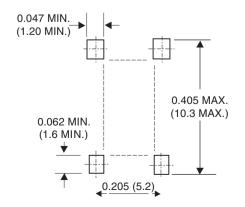


Fig. 2 Typical Forward Characteristics (per leg)

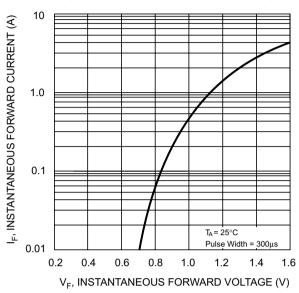
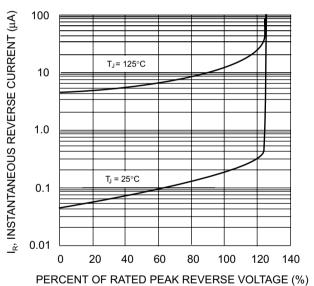


Fig. 4 Typical Reverse Characteristics (per element)





RDB201S THRU RDB207S

Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from DIYI.
- DIYI reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- DIYI disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- DIYI does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.

DIYI makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

- The products shown here in are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own ris k andagree to fully indemnify DIYI for any damages resulting from such improper use or sale.
- Since DIYI uses lot number as the tracking base, please provide the lot number for tracking when complaining.