

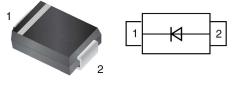
RS3AB thur RS3MB

CREATEK Microelectronics

Fast Recovery Rectifier in DO-214AA/SMB

Features

- Glass passivated junction chip
- For surface mounted application
- Low forward voltage drop
- Low profile package
- Built-in strain relief, ideal for automated placement
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition



Mechanical Data

- Case: JEDEC DO-214AA(SMB)molded plastic Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals

Electrical Characteristics

(T_A = 25 °C unless otherwise specified)

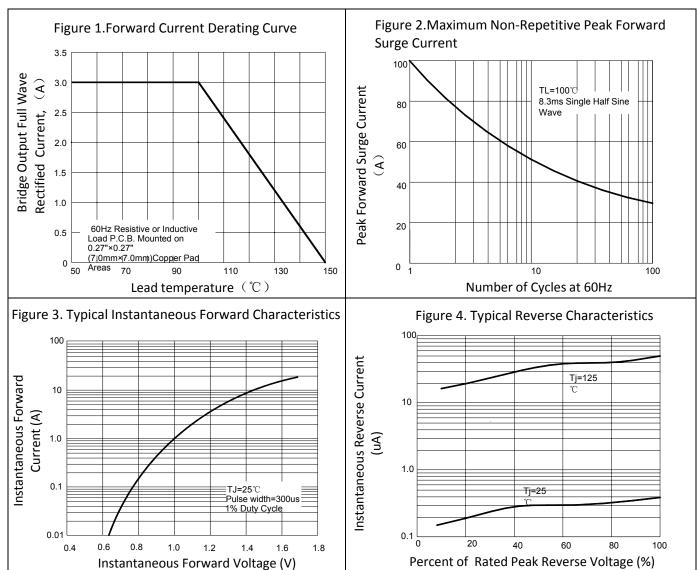
Parameter	Symbols	RS3AB	RS3BB	RS3DB	RS3GB	RS3JB	RS3KB	RS3MB	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current T_L =100°C	I _F (AV)				3.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM				100.0				A
Maximum Instantaneous Forward Voltage at 2	A V _F				1.35				V
Maximum DC Reverse Current @ T _A =25°C					5.0				uA
at Rated DC Blocking Voltage	C I _R	200			uA				
Typical Reverse Recovery Time	T _{rr}	150 250 50			00	nS			
at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A Typical Junction Capacitance at 4.0V, 1MHz	CJ	50			pF				
	R _{THJA}	55						°C/W	
Typical Thermal Resistance(Note 1)	R _{THJL}	18							
Operating Junction Temperature Range T _J		-55 to +150					°C		
Storage Temperature Range T _{STG}		-55 to +150					°C		

Notes: 1. Thermal resistance form junction to ambient and from junction to lead frame P.C.B. mounted on 0.3×0.3"(8.0×8.0mm) copper pad areas.

[∞]**@**REATEK

RS3AB thur RS3MB

CREATEK Microelectronics



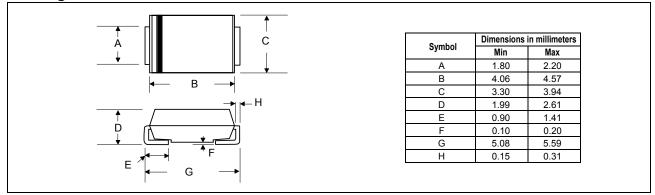
Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)



RS3AB thur RS3MB

CREATEK Microelectronics

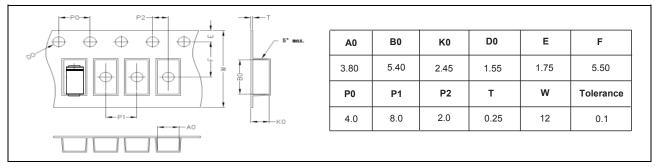
Package Dimensions



PAD Dimensions



Packing Information



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
RS3AB Thur RS3MB	DO-214AA/SMB	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release
18-Dec2019	2.0	Update

[∞] **@ REATEK**

RS3AB thur RS3MB

CREATEK Microelectronics

CAUTION / WARNING

Information in this document is believed to be accurate and reliable. However, CREATEK does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information.

Users should independently evaluate the suitability of and test each product selected for their own applications, and CREATEK assumes no liability whatsoever relating to the choice, selection or use of the CREATEK products and services described herein.

CREATEK reserves the right to change or update, without notice, any information contained in this publication; to change, without notice, the design, construction, processing, or specification of any product; and to discontinue or limit production or distribution of any product.

Information in this document supersedes and replaces all information previously supplied.

Products are not designed, authorized or warranted to be suitable for use in medical, military, aircraft, space or life support equipment, nor in applications where failure or malfunction of an CREATEK product can reasonably be expected to result in personal injury, death or severe property or environmental damage. CREATEK accepts no liability for inclusion and/or use of CREATEK products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from national authorities.

Resale of CREATEK products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by CREATEK for the CREATEK product or service described herein and shall not create or extend in any manner whatsoever, any liability of CREATEK.

CREATEK expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. CREATEK only obligations are those in the CREATEK Standard Terms and Conditions of Sale and in no case will CREATEK be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of its products.

Specifications are subject to change without notice © Copyright 2009,CREATEK Microelectronics © CREATEK® is a registered trademark of CREATEK Microelectronics All rights reserved