



## ES3A~ES3J

### SUPER FAST RECOVERY RECTIFIER

Rev.3.3

#### DESCRIPTION:

- ✧ Plastic package has underwriters laboratory flammability classification 94V-0
- ✧ For surface mounted applications in order to optimize board space
- ✧ Glass passivated chip junction
- ✧ Lead free in comply with EU RoHS 2011/65/EU directives
- ✧ Super fast recovery time

#### MECHANICAL DATA

- ✧ Case: JEDEC DO-214AB molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.26 gram

#### ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

(Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	ES3A	ES3B	ES3D	ES3G	ES3J	Unit	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	V	
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	V	
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	V	
Maximum average forward current at $T_L=100$	$I_{F(AV)}$	3.0						A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	100						A

Maximum forward voltage @  $I_F$

**THERMAL RESISTANCES**

Symbol	Parameter	ES3A	ES3B	ES3D	ES3G	ES3J	Unit
$R_{th(j-L)}$	Junction to lead (note1)	12					/W

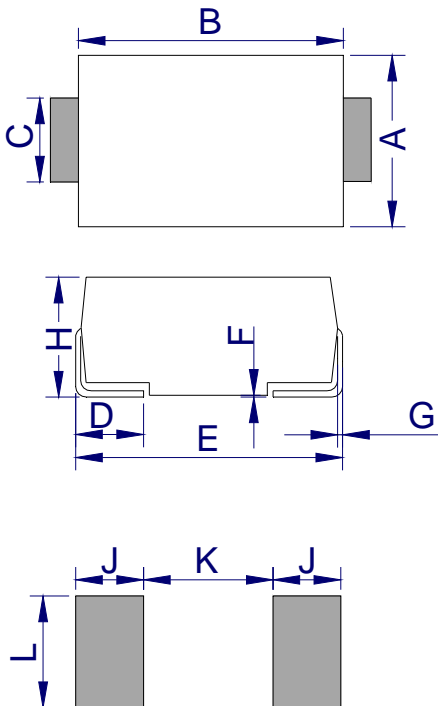
Note1 Thermal resistance from junction to lead mounted on P.C.B. with 8.0 mm x 8.0 mm copper pad areas.

**MARKING**



E	Super Fast Recovery Rectifier					
S	Surface Mount					
3	$I_{F(AV)}=3.0A$					
J	$V_{RRM}:600V$					
<u>x</u> H1 Month 1 2 3 9 A B C						
3x1						
2018	2019	2020	2021	2022	2023	2024

**PACKAGE MECHANICAL DATA**

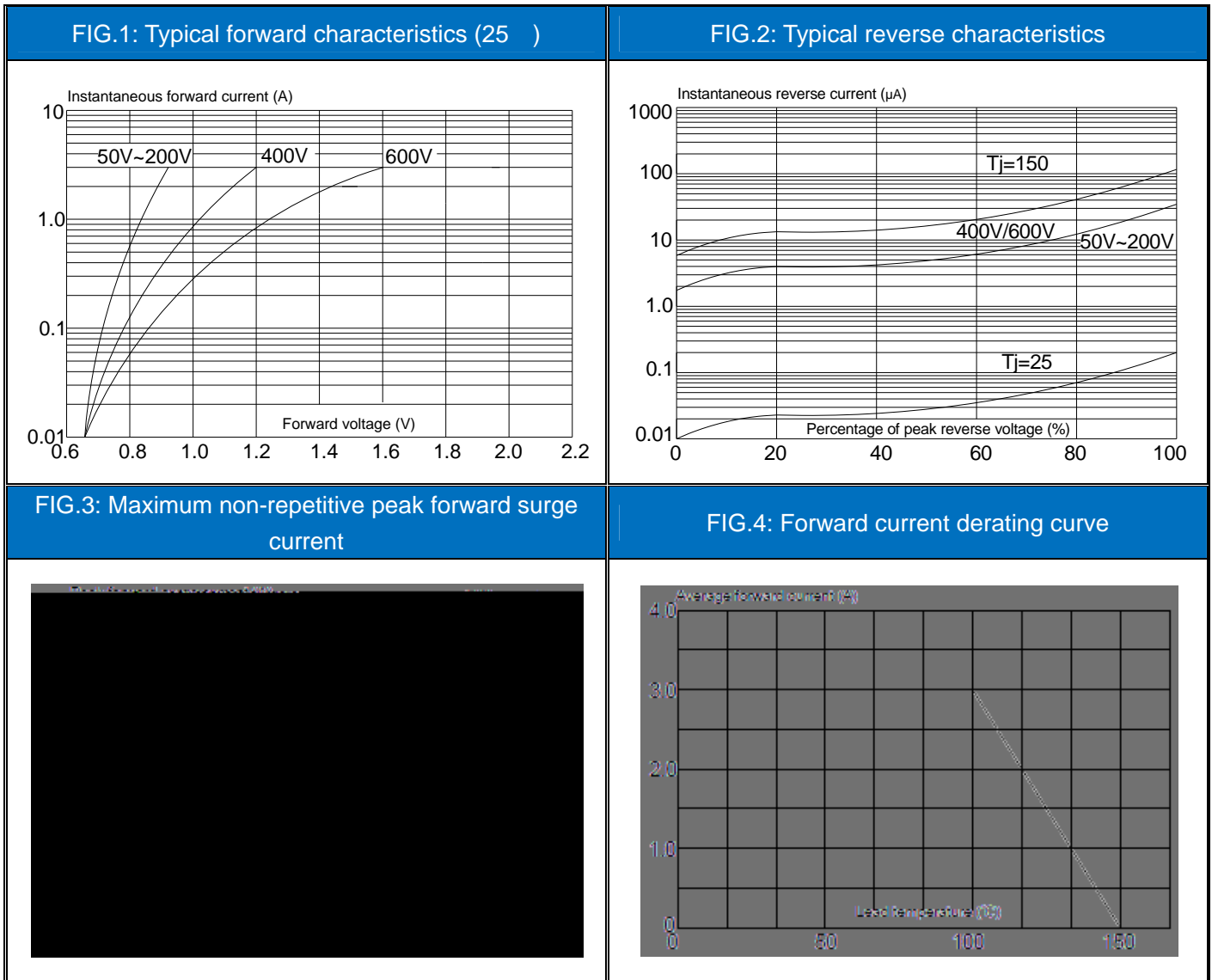


DO-214AB (SMC)

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	5.75	6.25	0.226	0.246
B	6.90	7.40	0.272	0.291
C	2.75	3.25	0.108	0.128
D	0.95	1.52	0.037	0.060
E	7.70	8.20	0.303	0.323
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
H	2.15	2.62	0.085	0.103
J	2.40		0.094	
K		4.20		0.165
L	3.30		0.130	

**ES3A~ES3J**

CHARACTERISTICS CURVE



Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co.,Ltd assumes no responsibility for the consequences of use without consideration for such information nor use beyond it.

Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

This document is the 3.3rd version which is made in 11-Sept.-2020. This document supersedes and replaces all information previously supplied.



is a registered trademark of Jiangsu JieJie Microelectronics Co.,Ltd.

Copyright ©2020 Jiangsu JieJie Microelectronics Co.,Ltd. Printed All rights reserved.