



US5A~US5M
ULTRA FAST RECOVERY RECTIFIER

Rev.2.4

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
- Ultrafast recovery time for high efficiency

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 ambient temperature unless otherwise speci6 1 4rmi.(e unTJ/TETq1 i 233.6487.38 48-205. Tc22..74eco.3

		500		μA
		T _j =150		
Typical junction capacitance V _R =4.0V, f=1MHz	C _J	50	35	pF
Operating juion capd8d storage temperature range	T _j ,T _{stg}	-55 to +150		
Maximum reverse recovery time I _F =0.5A, I _R =1A, I _{rr} =0.25A	t _{rr}	50	75	ns



THERMAL RESISTANCES

Symbol	Parameter	US5A	US5B	US5D	US5G	US5J	US5K	US5M	Unit
R _{th(j-L)}	Junction to lead(note1)	15							/W

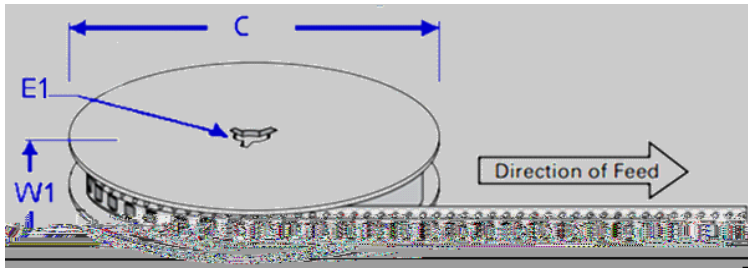
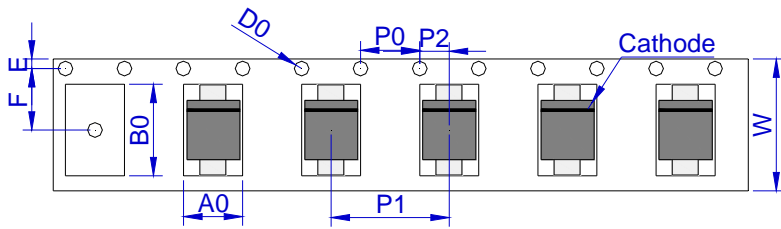
Note1 Thermal resistance from junction to lead mounted on P.C.B. with 8.0 mm x 8.0 mm copper pad areas.

MARKING

PACKAGE MECHANICAL DATA

Ref.	Dimensions	
	Millimeters	Inches
	Min.	
A	5.75	
B	6.90	
C	2.75	
D	0.95	
E	7.70	
F	0.051	
G	0.15	

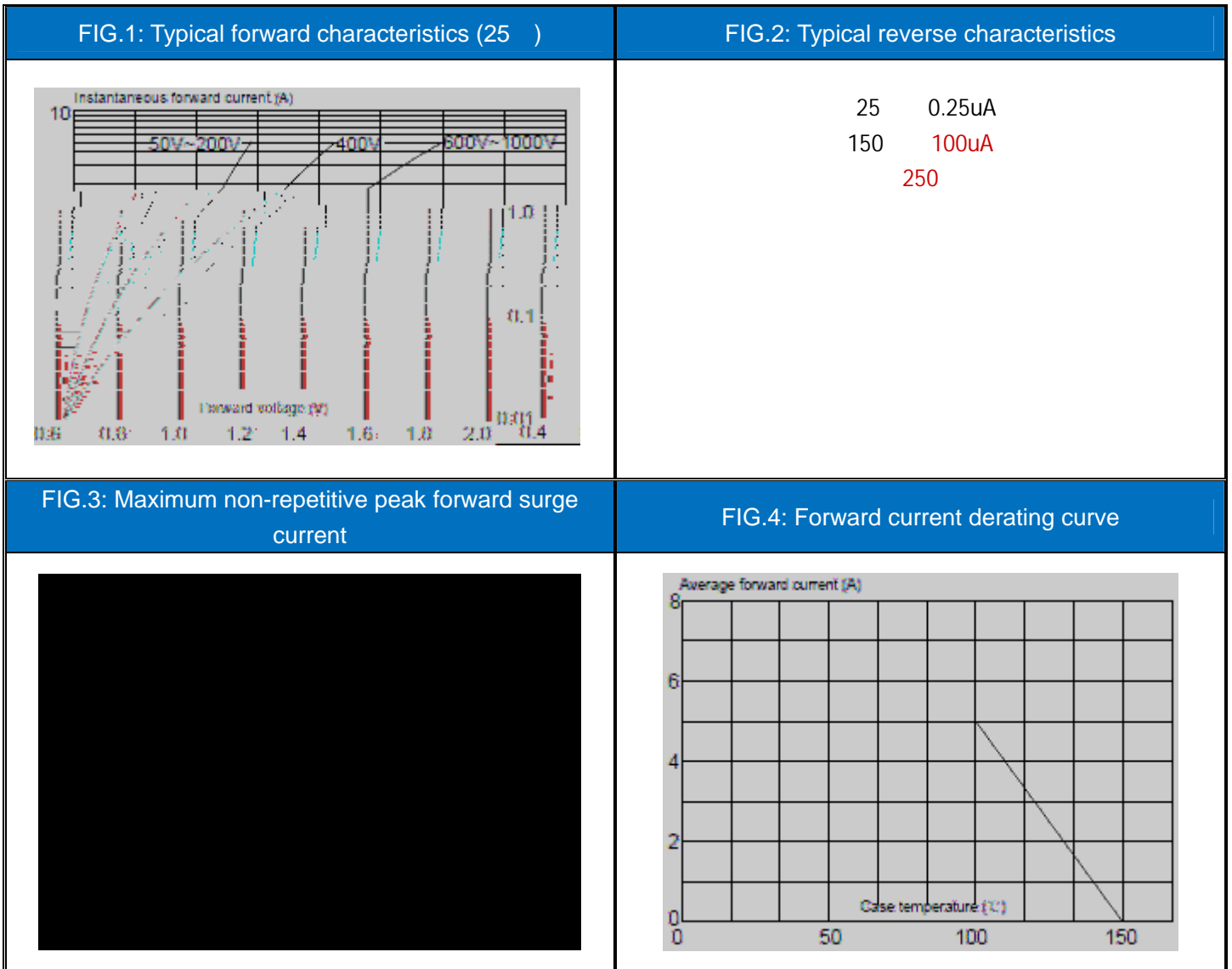
TAPE AND REEL SPECIFICATION-SMC



Ref.	Dimensions	
	Millimeters	Inches
A0	6.05 ± 0.3	0.238 ± 0.012
B0	8.31 ± 0.3	0.327 ± 0.012
C	330.0	13.0
D0	1.55 ± 0.1	0.061 ± 0.004
E	1.75 ± 0.2	0.069 ± 0.008
E1	13.3 ± 0.3	0.524 ± 0.012
F	7.50 ± 0.2	0.295 ± 0.008
P0	4.00 ± 0.2	0.157 ± 0.008
P1	8.00 ± 0.2	0.3145 ± 0.008
P2	2.00 ± 0.2	0.079 ± 0.008
W	16.0 ± 0.2	0.630 ± 0.008
W1	19.7 ± 2.0	0.776 ± 0.079

OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.26	3,000	48,000	330

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 2.4th version which is made in 10-July-2019. This document supersedes and replaces all information previously supplied.



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

Copyright ©2019 Jiangsu JieJie Microelectronics Co.,Ltd. Printed All rights reserved.