



US1A SERIES

SURFACE MOUNT ULTRAFAST RECTIFIER VOLTAGE 50 to 1000 Volt CURRENT 1 Ampen	re SMA/DO-214AC	Unit : inch(mm)
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampen FEATURES		
 For surface mounted applications in order to optimize board space Easy pick and place Ultrafast recovery times for high efficiency Plastic package has Underwriters Laboratory Flammability Classification 94V-O Glass passivated junction Lead free in compliance with EU RoHS 2.0 Green molding compound as per IEC 61249 standard 	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.114(2.90)
MECHANICAL DATA		0. 012(0. 305)
Case: JEDEC DO-214AC molded plastic Terminals: Solder plated, solderable per MIL-STD-750,Method 202 Polarity: Color band denotes cathode end Standard packaging: 12mm tape (EIA-481) Weight: 0.0023 ounces, 0.0679 grams Marking : Part number	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Cathode A	O 2 node	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	US1A	US1B	US1D	US1G	US1J	US1K	US1M	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{\rm RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V	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 Current	l _{F(AV)}	1					A		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I FSM		30					A	
Maximum Forward Voltage at 1A	V _F		1		1.3	1.7			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $$T_j=25^\circ C$$ $$T_j=125^\circ C$$	I _R	1 100				μA			
Typical Junction Capacitance (Note 2)	C				17				рF
Typical Thermal Resistance (Note 3)	R _{ejl}	30				°C / W			
Typical Thermal Resistance (Note 4)	R _{ejc}	28				°C / W			
Maximum Reverse Recovery Time (Note 1)	T		5	0			100		ns
Operating Junction and Storage Temperature Range	T_,T _{stg}	-55 to +150			٥C				

NOTES:1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =-1A, I_{rr} =-0.25A

2. Measured at 1 MHz and applied V_r = 4volts.

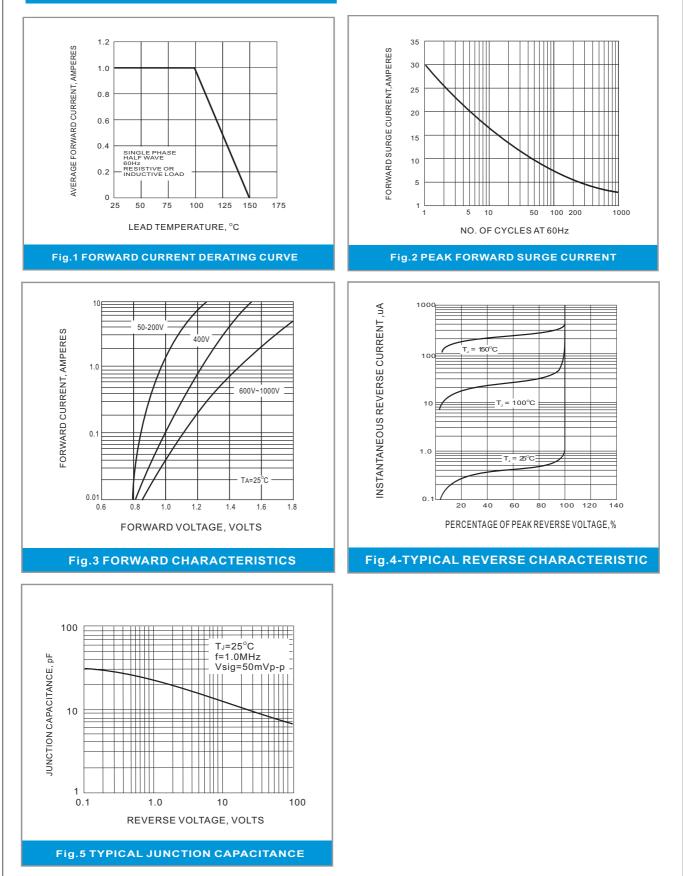
3. 8mm² (0.013mm thick) land areas.

4. Mounted on 100cm² FR4 PCB.



US1A SERIES

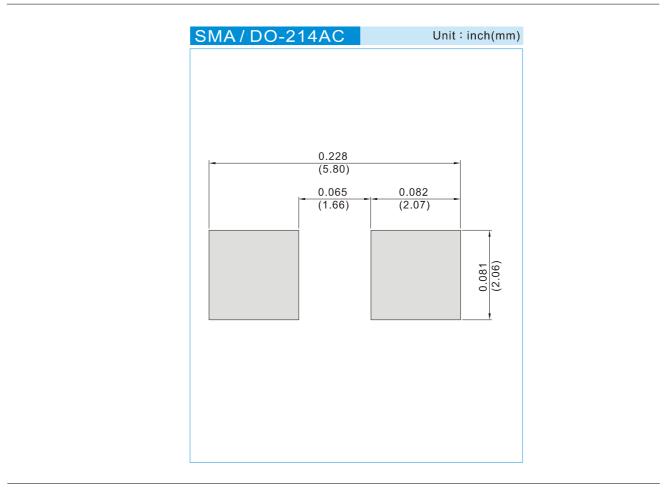
RATING AND CHARACTERISTIC CURVES





US1A SERIES

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 7.5K per 13" plastic Reel
 - T/R 1.8K per 7" plastic Reel





For example :

RB500V-40_R2_00001

Part No.

Serial number

_

Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein 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 risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Panjit manufacturer:

Other Similar products are found below :

 70HFR40
 RL252-TP
 150KR30A
 1N5397
 SCF5000
 1N4002G
 1N4005-TR
 JANS1N6640US
 481235F
 RRE02VS6SGTR
 067907F
 MS306

 70HF40
 T85HFL60S02
 US2JFL-TP
 A1N5404G-G
 ACGRA4007-HF
 ACGRB207-HF
 CLH03(TE16L,Q)
 ACGRC307-HF
 ACEFC304-HF

 85HFR60
 40HFR60
 70HF120
 85HFR80
 D126A45C
 SCF7500
 D251N08B
 SCHJ22.5K
 SM100
 SCPA2
 SCH10000
 SDHD5K
 VS

 12FL100S10
 ACGRA4001-HF
 D1821SH45T PR
 D1251S45T
 SKN300/16
 SKN 5/08
 TSD3G
 SET130312
 MSE07PBHM3/89A
 UES1106

 60S8-TP
 NTE6010
 JANTX1N5196
 SCHS15000
 BYV32-200M
 D5FE60-5063
 JANS1N6621US