

U2A THRU U2M

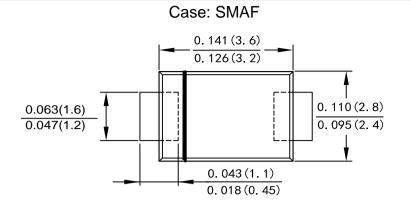
2.0AMP Surface Mount Glass Ultra Fast Rectifier

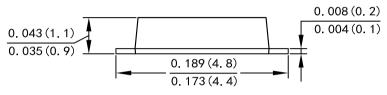
Features

- . Low cost
- · Ultra fast switching for high efficiency
- · High current capability
- Plastic Case Material has UL Flammability Classification Rating 94V- 0

Mechanical Data

- · Case: Molded plastic SMAF
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- · Polarity: Color band dentes cathode end
- Mounting Position: Any
- · Making: Type Number





Dimiensions in inches and (milimeters)

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%

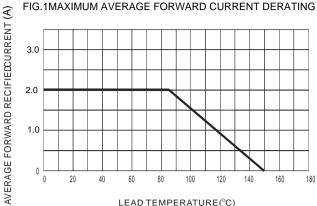
Type Number	SYMBOL	U2A	U2B	U2D	U2G	U2J	U2K	U2M	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @TL =90°C	l _{F(AV)}	2.0							Α
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	60							Α
I ² t Rating for Fusing (t < 8.3ms)	l ² t	14.940							A ² s
Forward Voltage @IF=2.0A	V _{FM}	1.0 1.3 1.7							V
Peak Reverse Current @T _A =25 ℃	5.0								
At Rated DC Blocking Voltage @T _A =125 ℃	100							uA	
Maximum Reverse Recovery Time (Note 1)	Trr	50 75						ns	
Typical Junction Capacitance (Note 2)	Сı	15							pF
Typical Thermal Resistance Junction to Ambient(Note 3)	Re JA Re JL Re JC	105 15 23							°C/W
Operating Temperature Range	TJ	-55 to+150							$^{\circ}$
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$

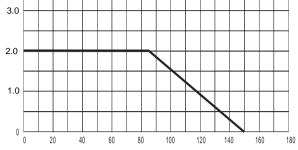
Note:

- 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.
- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3.Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.06"*0.09" copper pad. For reference only

version:07 1 of 3

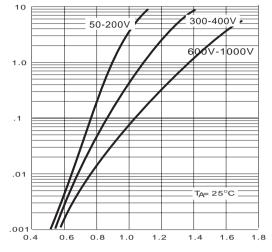






LEAD TEMPERATURE(°C)

FIG.2TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD CURRENT(A)

JUNCTION CAPACITANCE (pF)

INSTANTANEOUS FORWARD VOLTAGE (V)

FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

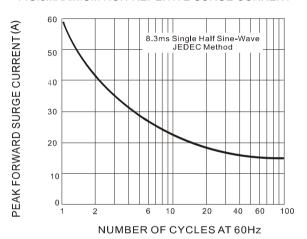
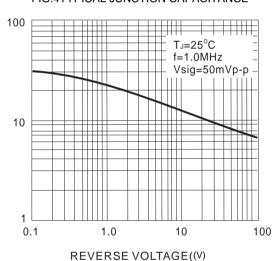


FIG.4TYPICAL JUNCTION CAPACITANCE



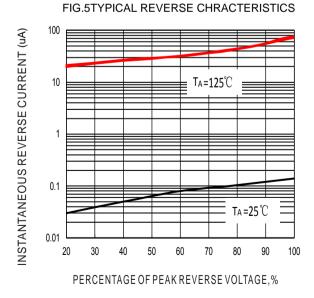
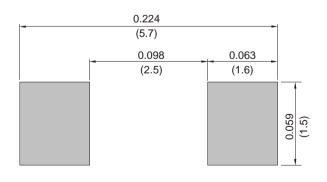


Fig.6 TYPICAL CAPACITANCE



version:07 2 of 3





2.0AMP Surface Mount Glass Ultra Fast Rectifier

Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from XINNUO
- XINNUO reserves the right to make changes to this document and its products and specifications
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO 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.
 - XINNUO 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 XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.

version:07 3 of 3

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by DIYI manufacturer:

Other Similar products are found below:

70HFR40 FR105 R0 RL252-TP DLA11C-TR-E DSA17G 1N5397 JANTX1N5634A 1N4002G 1N4005-TR JANS1N6640US 481235F RRE02VS6SGTR 067907F MS306 US2JFL-TP A1N5404G-G CRS04(T5L,TEMQ) CRS12(T5L,TEMQ) ACGRB207-HF CLH07(TE16L,Q) CLH03(TE16L,Q) UES1302 ACGRC307-HF ACEFC304-HF DZ-1380 NTE6356 NTE6359 JAN1N5555 85HFR60 40HFR60 70HF120 85HFR80 D126A45C SCF7500 SCHJ22.5K SM100 SCPA2 SDHD5K ACGRA4001-HF D1821SH45T PR D1251S45T NTE6358 NTE5850 NTE5819 NTE5837 NTE5892 NTE5900 NTE5911 NTE5915 NTE5921