US2A THRU US2M

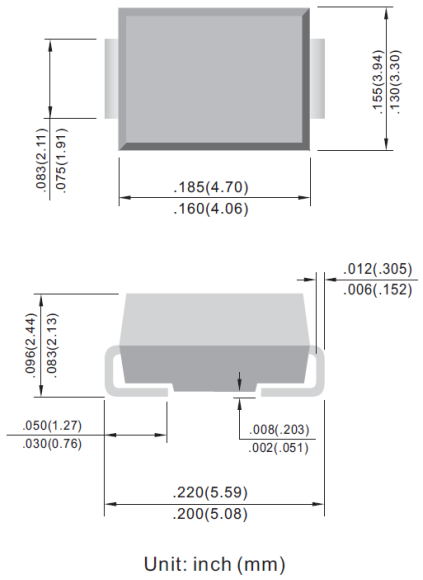
US2A THRU US2M
2.0Amp Ultra Fast Surface Mount Rectifiers

General description
2.0Amp Ultra Fast Surface Mount Rectifiers

FEATURES
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief
- Easy pick and place
- Ultrafast recovery times for high efficiency.
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Glass passivated Junction chip
- Both normal and Pb free product are available

MECHANICAL DATA
- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 0.003 ounce, 0.093 grams

SMB/DO214AA



Unit: inch (mm)

Absolute Maximum Ratings(Ta=25℃ unless otherwise specified)

Parameter	Symbols	US2A	US2B	US2D	US2G	US2J	US2K	US2M	Units
Marking Code	Mark	US2A	US2B	US2D	US2G	US2J	US2K	US2M	N/A
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	$I_{F(AV)}$	2							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage at 1 A	V_F	1.0			1.3	1.7			V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a =100 °C	I_R	10 500							μA
Maximum Reverse Recovery Time(Note 1) TJ=25°C	Trr	50				75			nS
Typical Junction Capacitance (Note 2)	C_j	50							pF
Maximum Thermal Resistance(Note 3) RθJA	$R_{\theta JA}$	20							°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150							°C

NOTES: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A
2. Measured at 1 MHz and applied Vr = 4.0 volts.

US2A THRU US2M

Ratings And Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

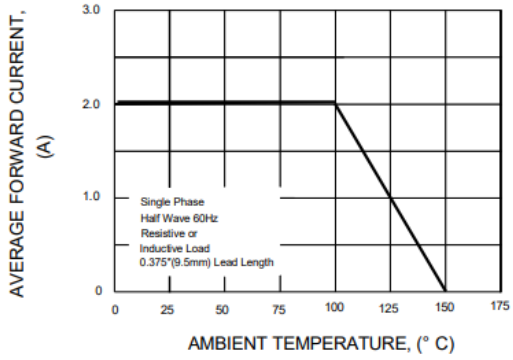


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

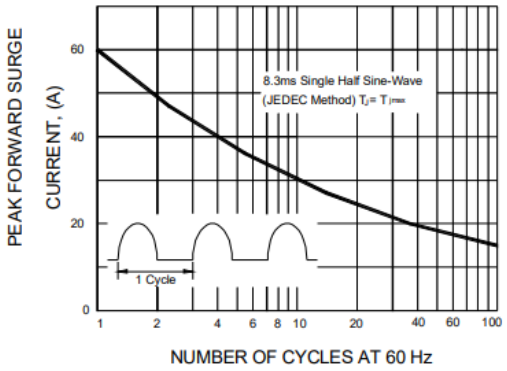


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

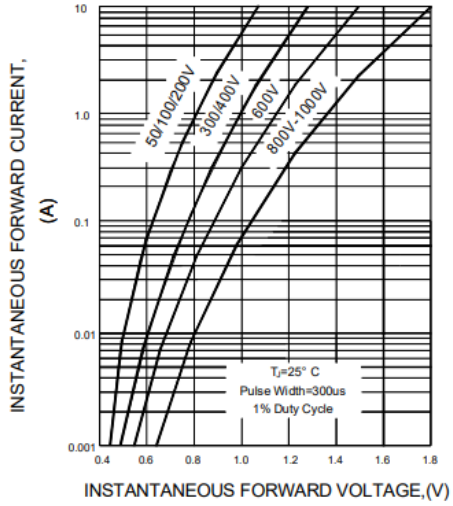


FIG.4-TYPICAL REVERSE CHARACTERISTICS

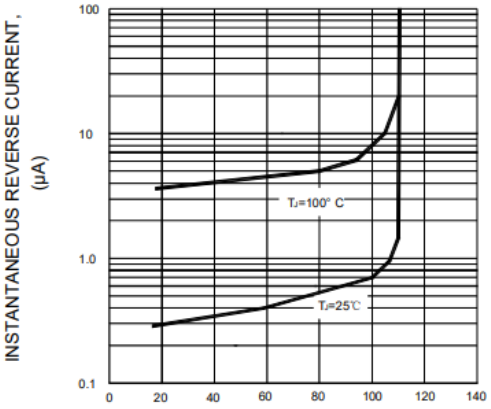
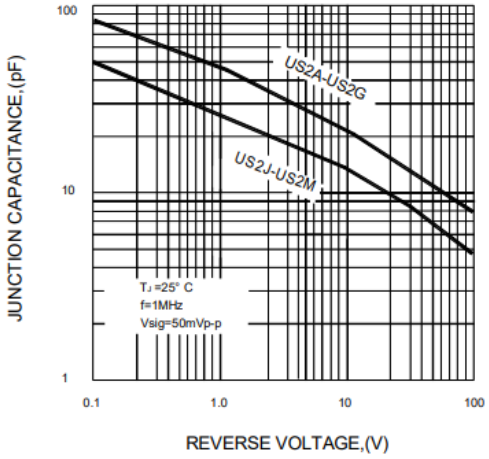
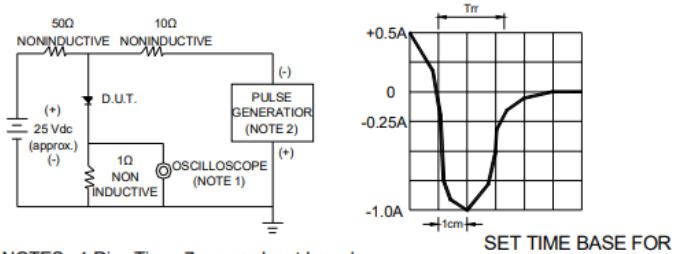


FIG.5-TYPICAL JUNCTION CAPACITANCE



F1G.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



SET TIME BASE FOR 50/100ns/cm

NOTES : 1.Rise Time=7ns max. Input Impedance= 1 magohm. 22pF

2.Rise time=10ns max. Source Impedance= 50 ohms

Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers ***category:***

Click to view products by Doeshare ***manufacturer:***

Other Similar products are found below :

70HFR40 FR105 R0 RL252-TP 150KR30A 1N5397 1N4002G 1N4005-TR UFS120Je3/TR13 JANS1N6640US 481235F RRE02VS6SGTR 067907F MS306 70HF40 T110HF60 T85HFL60S02 US2JFL-TP A1N5404G-G CRS12(T5L,TEMQ) ACGRB207-HF CLH07(TE16L,Q) CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 85HFR60 40HFR60 70HF120 85HFR80 D126A45C SCF7500 D251N08B SCHJ22.5K SM100 SCPA2 SDHD5K ACGRA4001-HF ACURA107-HF D1821SH45T PR D1251S45T NTE6358 NTE5850 NTE5819 NTE5837 NTE5892 NTE5900 NTE5911 NTE5915 NTE5921