SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 V

Forward Current - 1 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- High efficiency
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

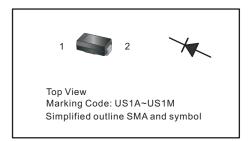
· Case: SMA

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.055g / 0.002oz

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



Maximum Ratings and Electrical characteristics

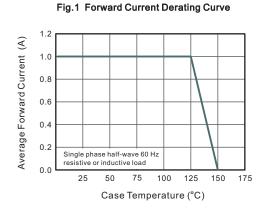
Ratings at 25 °C ambient temperature unless otherwise specified.

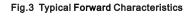
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	US1A	US1B	US1D	US1G	US1J	US1K	US1M	Units
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	\ \
Maximum Average Forward Rectified Current at T_c = 125 °C	I _{F(AV)}	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30						А	
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.0 1.3 1.65						\ \	
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R	5 100						μA	
Maximum Reverse Recovery Time (1)	t _{rr}	50 75					ns		
Typical Thermal Resistance (2)	$R_{\theta JA}$	75						°C/W	
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150							°C

⁽¹⁾ Measured with $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$.

⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.





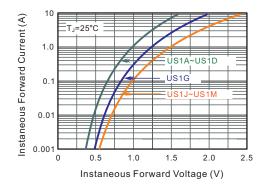


Fig.2 Typical Reverse Characteristics

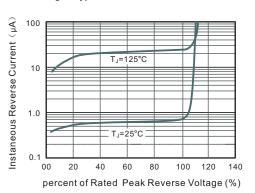
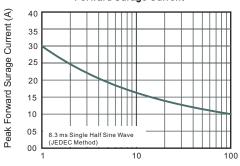


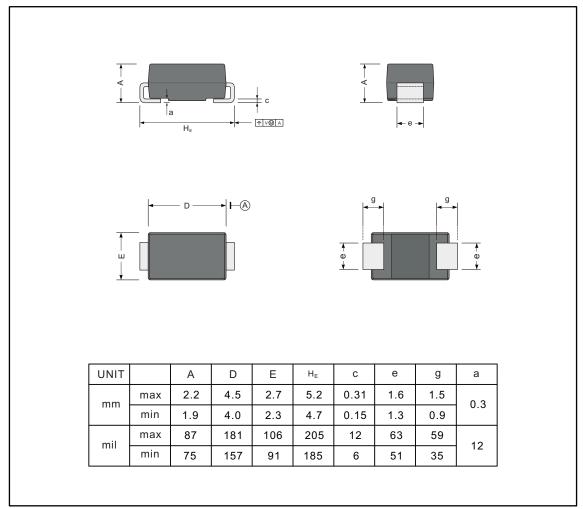
Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



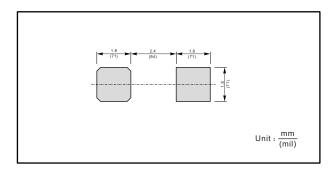
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads





The recommended mounting pad size



Marking

Type number	Marking code				
US1A	US1A				
US1B	US1B				
US1D	US1D				
US1G	US1G				
US1J	US1J				
US1K	US1K				
US1M	US1M				

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Jingdao 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 CRS04(T5L,TEMQ)

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 VS-12FL100S10 ACGRA4001-HF ACURA107-HF D1821SH45T PR D1251S45T NTE6358 NTE5850 NTE5819 NTE5837 NTE5892 NTE5900 NTE5911