


RoHS
COMPLIANT

SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER
Reverse Voltage - 50 to 1000 V
Forward Current - 2 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


 Top View
 Marking Code: US2A~US2M
 Simplified outline SMA and symbol

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 %.

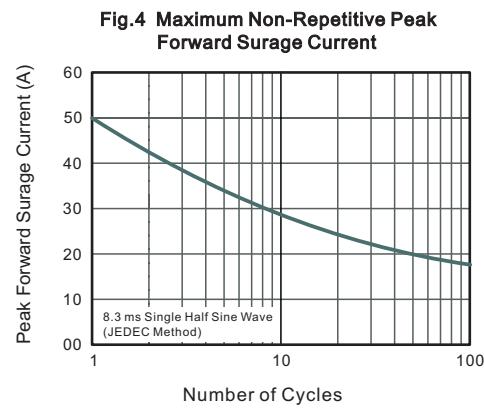
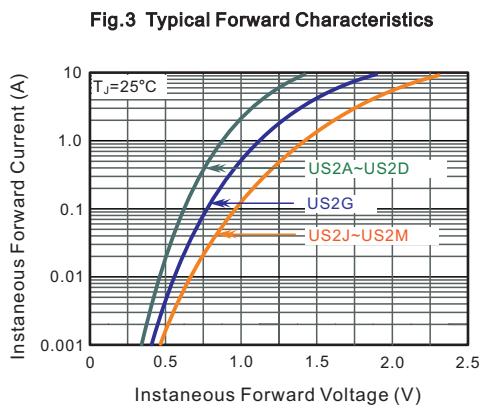
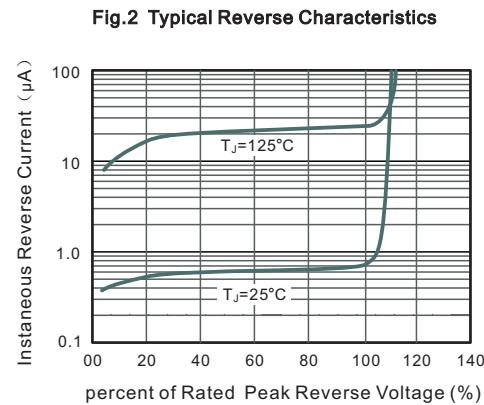
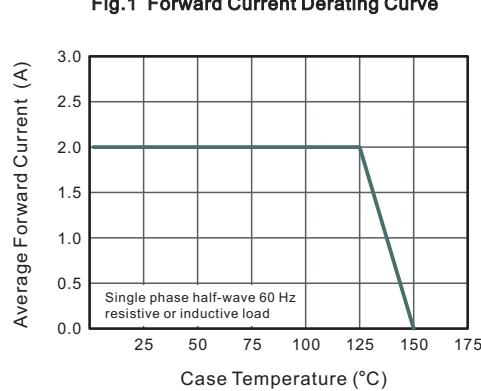
Parameter	Symbols	US2A	US2B	US2D	US2G	US2J	US2K	US2M	Units			
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V			
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V			
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V			
Maximum Average Forward Rectified Current at T _a = 125 °C	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 2 A	V _F	1.0		1.3	1.65			V				
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 _{θJA} R _{θJC}	65 20						°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.



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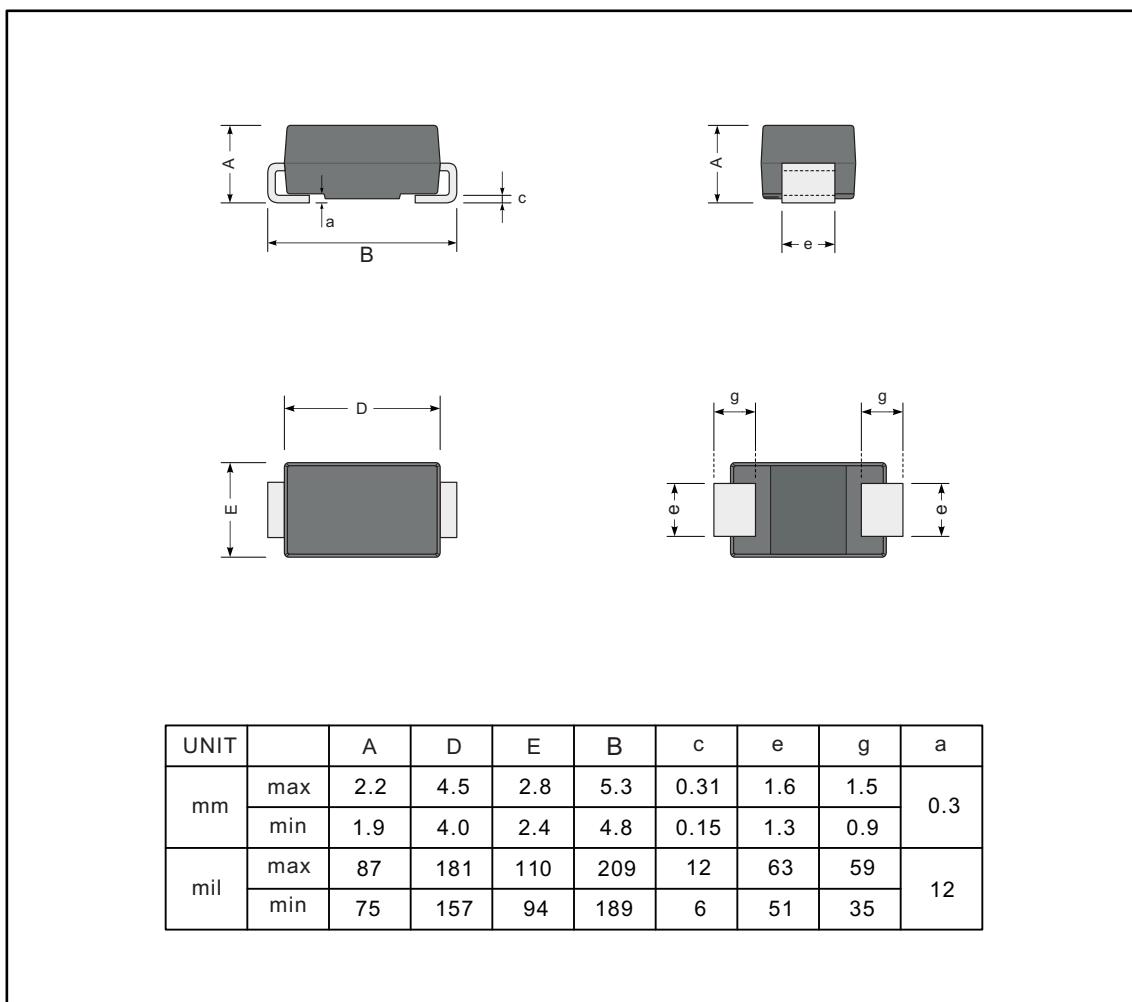
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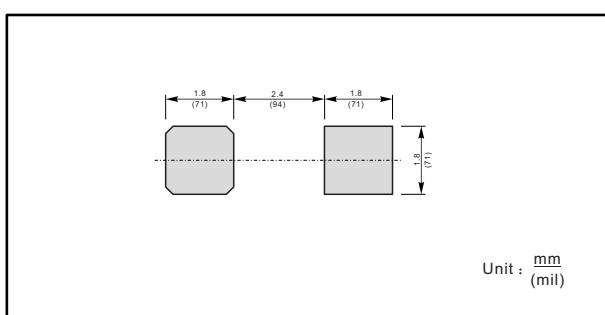
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size



Marking

Type number	Marking code
US2A	US2A
US2B	US2B
US2D	US2D
US2G	US2G
US2J	US2J
US2K	US2K
US2M	US2M