US2ABF THRU US2MBF

Surface Mount Ultrafast Recovery Rectifier

Reverse Voltage - 50V~1000 V

Forward Current - 2.0 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

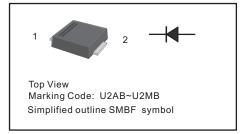
· Case: SMBF

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

Approx. Weight: 57mg / 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	US2ABF	US2BBF	US2DBF	US2GBF	US2JBF	US2KBF	US2MBF	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	\
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)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50						А	
Maximum Instantaneous Forward Voltage at 2 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						μА	
Maximum Reverse Recovery Time (1)	t _{rr}	50 75					ns		
Typical Thermal Resistance (2)	$R_{ heta_{JA}}$ $R_{ heta_{JC}}$	60 18						°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.



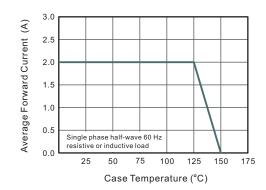


Fig.2 Typical Reverse Characteristics

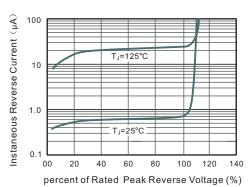


Fig.3 Typical Forward Characteristics

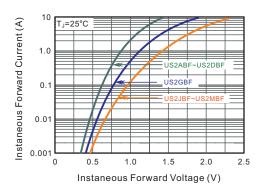
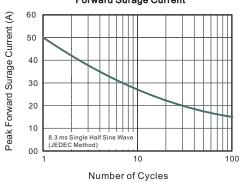


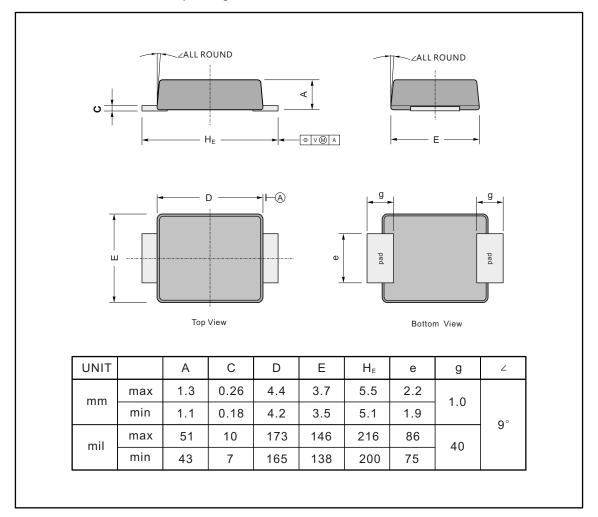
Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



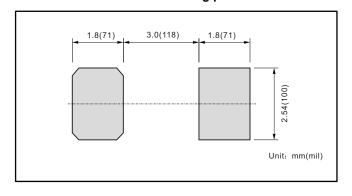
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF



The recommended mounting pad size



Marking

Type number	Marking code				
US2ABF	U2AB				
US2BBF	U2BB				
US2DBF	U2DB				
US2GBF	U2GB				
US2JBF	U2JB				
US2KBF	U2KB				
US2MBF	U2MB				

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