

US2ABF THRU US2MBF

DESCRIPTION

Cathode Anode

Marking Code: U2AB~U2MB Simplified outline SMBF symbol

Surface Mount Ultrafast Recovery Rectifier FEATURES

Reverse Voltage – $50V\sim1000~V$

PINNING

PIN

Forward Current – 2.0 A

• For surface mounted applications

• Low profile package

• Glass Passivated Chip Junction

• Superfast reverse recovery time

• 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

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	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{pc}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	55 50					А		
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.0 1.3			1.6		٧		
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I _R	5 100							μA
Typical Junction Capacitance 13	C _j				60				рF
Maximum Reverse Recovery Time 2>	t,,	50 75					ทธ		
Typical Thermal Resistance 3>	Reja Reji	60 20							°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55~+150							°C

^{1)} Measured at 1 MHz and applied reverse voltage of 4 V D.C $\,$ 2) Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A

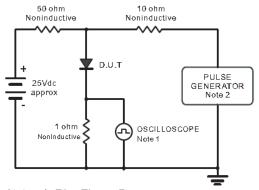
REV.08 1 of 3

³) P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 $mm_{2})$ copper pad areas.

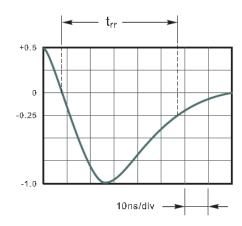


US2ABF THRU US2MBF

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



- Note: 1. Rise Time = 7ns, max. Input Impedance = 1megohm,22pF.
 - 2. Ries Time =10ns, max. Source Impedance = 50 ohms.



Set time Base for 10ns/div



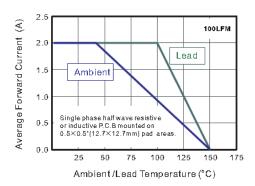


Fig.3 Typical Reverse Characteristics

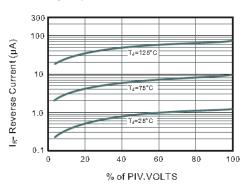


Fig.3 Typical Instaneous Forward Characteristics

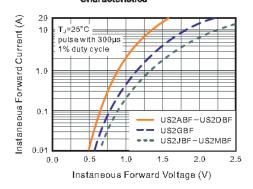
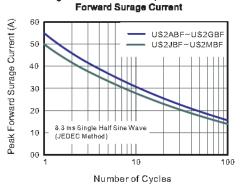


Fig.4 Maximum Non-Repetitive Peak



REV.08 2 of 3



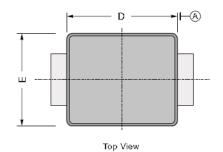
US2ABF THRU US2MBF

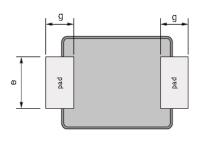
SMBF

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

ZALL ROUND A HE VM A E

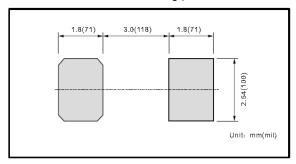




Bottom View

UNIT		Α	С	D	E	H₅	е	g	۷
mm	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0	. 9°
	min	1.1	0.18	4.2	3.5	5.1	1.9	1.0	
mil	max	51	10	173	146	216	86	40	
	min	43	7	165	138	200	75	40	

The recommended mounting pad size



Marking

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

REV.08 3 of 3

单击下面可查看定价,库存,交付和生命周期等信息

>>SHIKUES(时科)