US2AB-AT THRU US2MB-AT

SURFACE ULTRAFAST RECOVERY RECTIFIERS

Forward Current-2A

Reverse Voltage-50V to 1000V

FEATURES

- ◆ For surface mount applications
- Glass passivated chip junction
- ◆ Low profile package
- ♦ Easy to pick and place
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

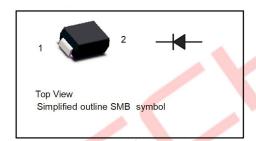
♦ Case: SMB molded plastic body

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

♦ Weight: Approximated 0.057 grams

PINING

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 derating by 20 %.

PARAMETER	SYMBOL	US2AB -AT	US2BB -AT	US2DB -AT	US2GB -AT	US2JB -AT	US2KB -AT	US2MB -AT	UNIT
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 _C =125°C	I _{F(AV)}	2					А		
Peak Forward Surge Current(Note1)	I _{FSM}	50					Α		
Maximum Forward Voltage at 2.0 A	V _F	1.0 1.3 1.65					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C T _A =125°C	I _R	5 100						uA	
Maximum Reverse Recovery Time (Note2)	Trr	50 75				nS			
Typical Thermal Resistance (Note3)	R _{θJA}	60					°C/W		
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C		

- Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).
 - 2. Measured at with I_F=0.5A, I_{rr}=0.25A.
 - 3. P.C.B. mounted with 2.0" X 2.0" (5cm X 5 cm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES







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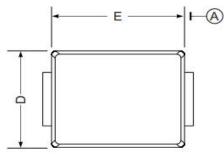
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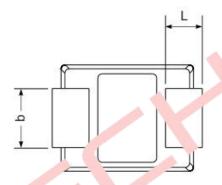
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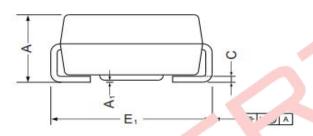
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PACKAGE OUTLINE

SMB





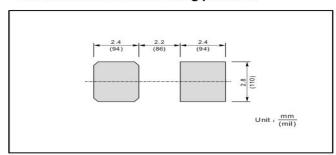


Dimensions in milimeters

SMB mechanical data

UNIT		Α	E	D	E ₁	A ₁	L	С	b
m	m (^ +4	4.70	3.94	5.59	0.20	1.5	0.305	2.2
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.9
nil	h.aX	96	185	155	220	7.9	59	12	87
	min	84	160	130	200	2.0	32	6	75

The recommended mounting pad size



ORDERING INFORMATION

Device	Package	Shipping
US2AB-AT thru US2MB-AT	SMB	5,000/ Tape & Reel (13 inches)



AGERTECH MICROELECTRONICS LTD.

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