

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
- ◆ High efficiency
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives


MECHANICAL DATA

- ◆ Case: DO-214AA/SMB
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 0.095g / 0.003oz

Maximum Ratings and 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 %.

Pinning	
1.Cathode	2.Anode
1	2
DO-214AA/SMB	

Marking Code	
US2A	US2A
US2B	US2B
US2D	US2D
US2G	US2G
US2J	US2J
US2K	US2K
US2M	US2M

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 $T_c = 125^\circ C$	$I_{F(AV)}$	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	0.95		1.25	1.65				V
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Blocking Voltage $T_a=125^\circ C$	I_R	5 100						μA	
Maximum Reverse Recovery Time ⁽¹⁾	Tr_{rr}	50			75				nS
Typical Thermal Resistance ⁽²⁾	$R_{θJA}$	60						$^{\circ}C/W$	
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						$^{\circ}C$	

⁽¹⁾ Measured with $I_F=0.5A, I_R=1A, I_n=0.25A$
⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Fig.1 Forward Current Derating Curve

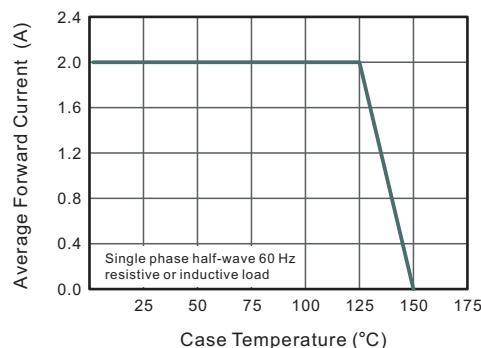


Fig.2 Typical Reverse Characteristics

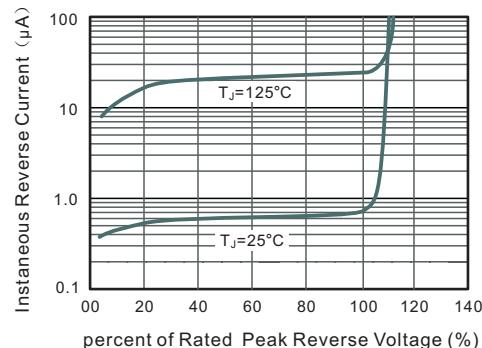


Fig.3 Typical Forward Characteristics

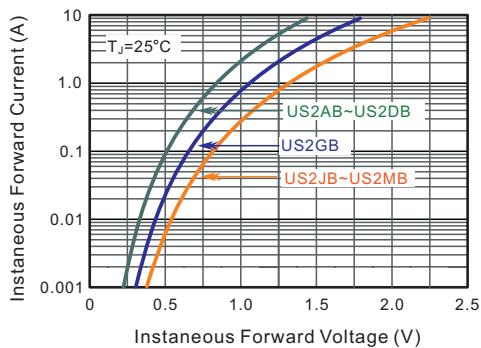
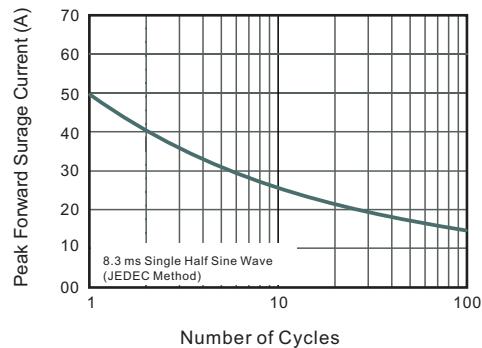
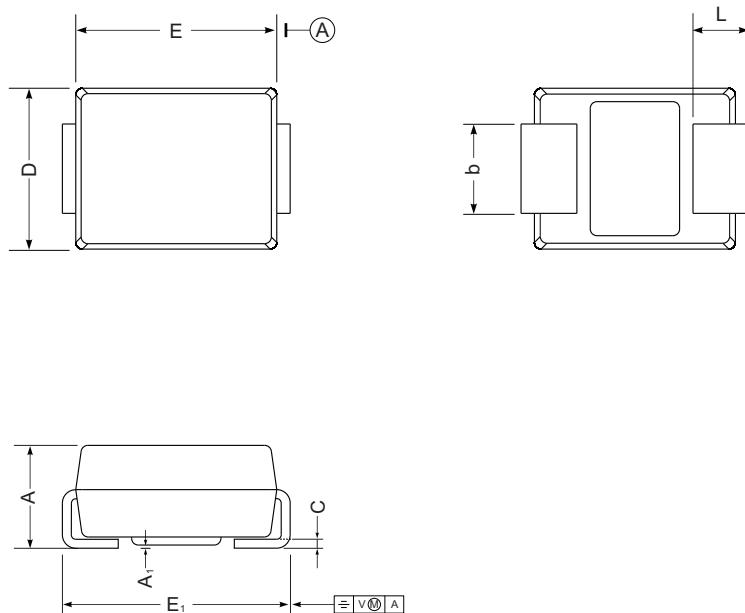


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

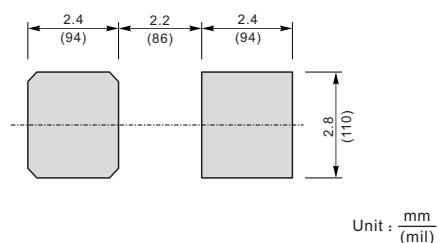


Package Outline
DO-214AA SMB

Plastic surface mounted package; 2leads



UNIT		A	E	D	E_1	A_1	L	C	b
mm	max	2.44	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
mil	max	96	185	155	220	7.9	59	12	87
	min	84	160	130	200	2.0	32	6	75

The recommended mounting pad size

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-214AA SMB	Tape/Reel,13"reel	3000	EIA-481-1

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