

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



SMB (DO-214AA)

(DO-214AA)

Features

Case: SMB

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

Approx. weight: 0.055g / 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	US2A-B	US2B-B	US2D-B	US2G-B	US2J-B	US2K-B	US2M-B	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	٧
Maximum Average Forward Rectified Current at T _c = 125 °C	I _{F(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50							Α
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.0 1.3 1.65					V		
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 100							μA
Maximum Reverse Recovery Time (1)	t _{rr}	50 75					ns		
Typical Thermal Resistance ⁽²⁾	R _{θJA}	60							°C/W
Operating and Storage Temperature Range	T_j , T_{stg}	-55 ~ +150							°C

^(1) Measured with $I_{\scriptscriptstyle F}$ = 0.5 A, $I_{\scriptscriptstyle R}$ = 1 A, $I_{\scriptscriptstyle ff}$ = 0.25 A.

⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



Typical Characteristics

Fig.1 Forward Current Derating Curve

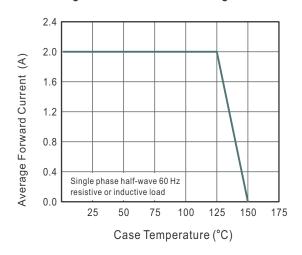


Fig.2 Typical Reverse Characteristics

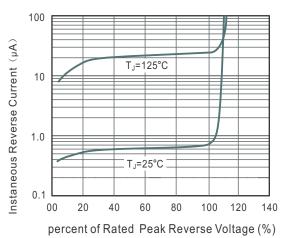


Fig.3 Typical Forward Characteristics

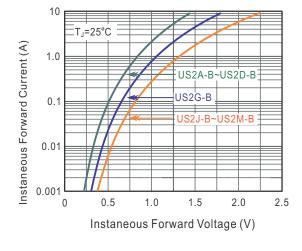
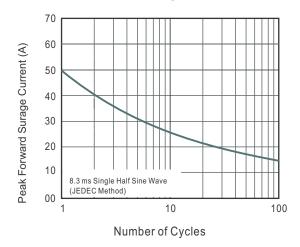
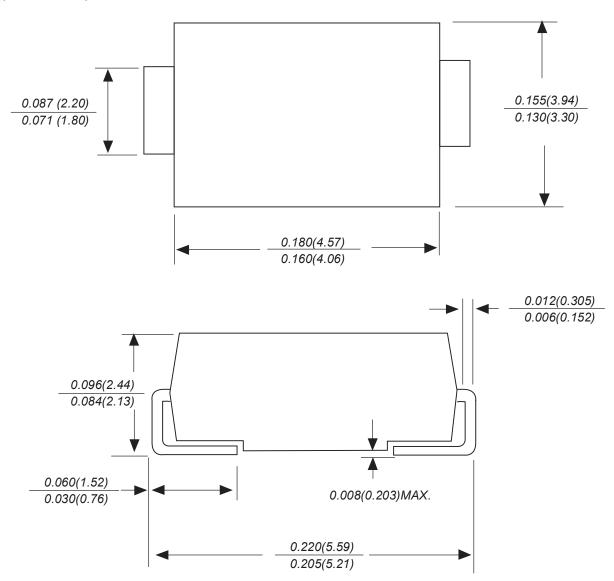


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current





Package Outline Dimensions SMB(DO-214AA)



Dimensions in inches and (millimeters)



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