

## Features

- The plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Glass passivation chip junction
- High surge current capability
- Low leakage current
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



## SMB(DO-214AA)



Cathode  $\leftarrow$   $\rightarrow$  Anode

## Mechanical Data

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.003ounce, 0.093 gram

## Applications

- For use in general purpose rectification of power supply,inverters, converters,and freewheeling diodes application.

## Maximum Ratings And Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave 60Hz,,resistive or inductive load. For capacitive load, derate by 20%.)

Parameters	Symbols	Value	Unis
Maximum recurrent peak reverse voltage	$V_{RRM}$	1000	Volts
Maximum RMS voltage	$V_{RMS}$	700	Volts
Maximum DC blocking voltage	$V_{DC}$	1000	Volts
Maximum average forward rectified current	$I_{F(AV)}$	2.0	Amps
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	60	Amps
Maximum instantaneous forward voltage at 2.0 A	$V_f$	1.0	Volts
Maximum reverse current at rated DC blocking voltage	$I_R$	$T_A=25^{\circ}C$	5.0
		$T_A=125^{\circ}C$	100.0
Typical junction capacitance (Note 1)	$C_j$	20	pF
Typical Thermal Resistance(Note2)	$R_{\theta JA}$ $R_{\theta JL}$	75	°C/W
		20	
Operating and Storage temperature range	$T_j, T_{STG}$	-55 to+150	°C

Note 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2.P.C.B. mounted with 5.0 mm x 5.0 mm (0.013 mm thick) copper pad areas

Fig.1-FORWARD CURRENT DERATING CURVE

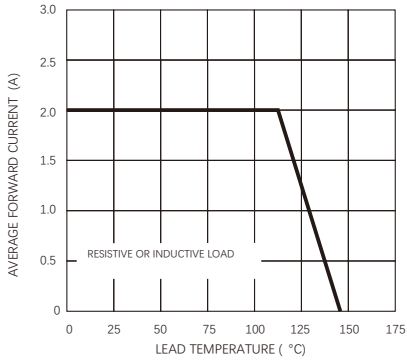


Fig.2-Typical Instantaneous Forward Characteristics

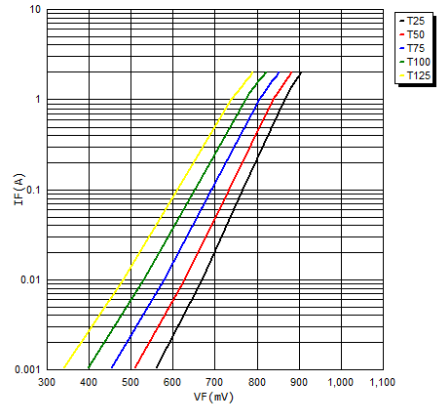


Fig.3-Maximum Non-repetitive Peak Forward Surge Current

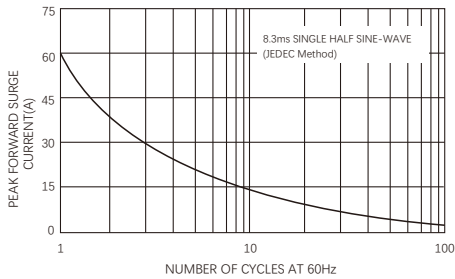


Fig.4-Typical Reverse Characteristics

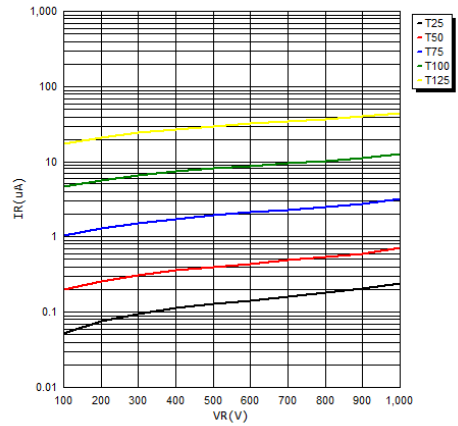
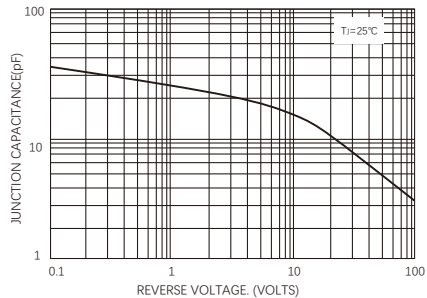


Fig.5-typical Junction Capacitance

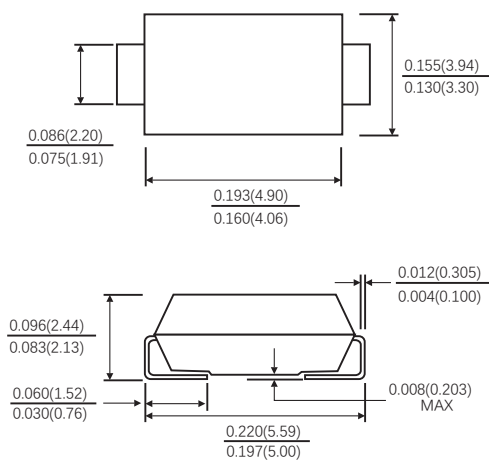


## AVAILABLE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (pcs/reel)	Box Size L×W×H (mm)	Quantity (reel/box)	Carton Size L×W×H (mm)	Quantity (box/carton)	Quantity (carton) (K)
S2MB-SMB	T/R	Φ330	3000	330×333×35	2	370×370×360	8	48

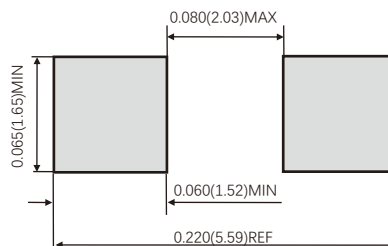
## PACKAGE OUTLINE DIMENSIONS

SMB(DO-214AA)



Dimensions in inches and (millimeters)

Suggested PAD Layout



## Friendship Reminder

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