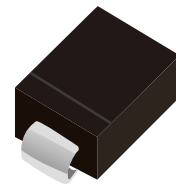
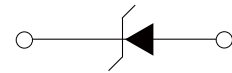


## FEATURES

- | The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- | For surface mounted applications
- | Built-in strain relief, ideal for automated placement
- | Low reverse leakage
- | High forward surge current capability
- | High temperature soldering guaranteed 260°C/10 seconds at terminals



DO-214AA(SMB)



Schematic Symbol

## MECHANICAL DATA

- | Case : Molded plastic body
- | Polarity : Polarity symbol marking on body
- | Mounting Position : Any

## APPROVALS

<b>RoHS</b>	Compliance with 2011/65/EU
<b>HF</b>	Compliance with IEC61249-2-21:2003

## MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ )

Parameter	Symbol	SS22B	SS24B	SS25B	SS26B	SS28B	SS210B	SS215B	SS220B	Unit	
Marking		SS22	SS24	SS25	SS26	SS28	SS210	SS215	SS220		
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	40	50	60	80	100	150	200	V	
Maximum RMS voltage	$V_{RMS}$	14	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	$V_{DC}$	20	40	50	60	80	100	150	200	V	
Maximum average forward rectified current at $T_L=100^{\circ}\text{C}$	$I_{(AV)}$	2.0								A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50								A	
Maximum instantaneous forward voltage at 2.0A	$V_F$	0.55			0.70	0.85		0.95		V	
Maximum DC reverse current at rated DC blocking voltage	$T_A=25^{\circ}\text{C}$	0.2			0.05					$\mu\text{A}$	
	$T_A=100^{\circ}\text{C}$	10			5					$\mu\text{A}$	
Typical thermal resistance	$R_{\theta JA}$	60								$^{\circ}\text{C}/\text{W}$	
Operating junction temperature range	$T_J$	-55 to +125				-55 to +150					$^{\circ}\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150								$^{\circ}\text{C}$	

# CHARACTERISTIC CURVES

Fig. 1- Derating Curve Output Rectified Current

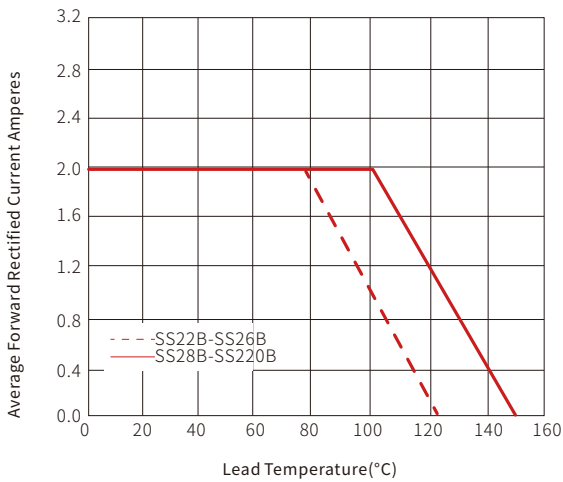


Fig. 2- Maximum Non-repetitive Peak Forward Surge Current Perleg

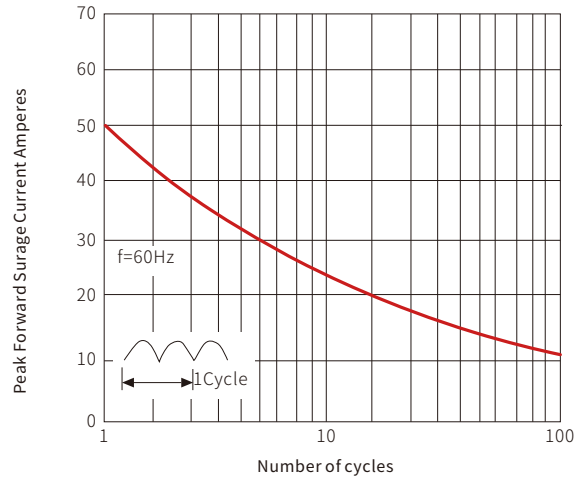


Fig. 3- Typical Forward Voltage Characteristics

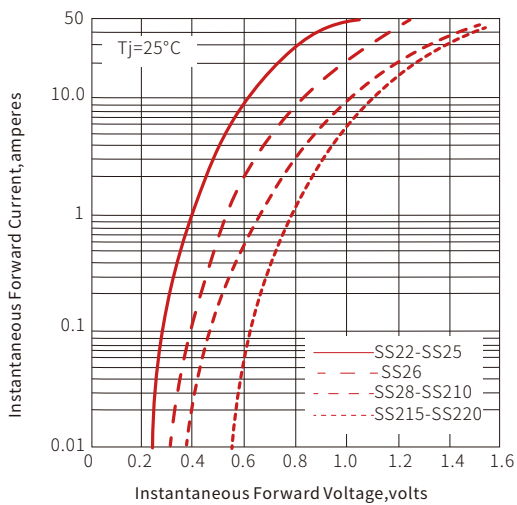
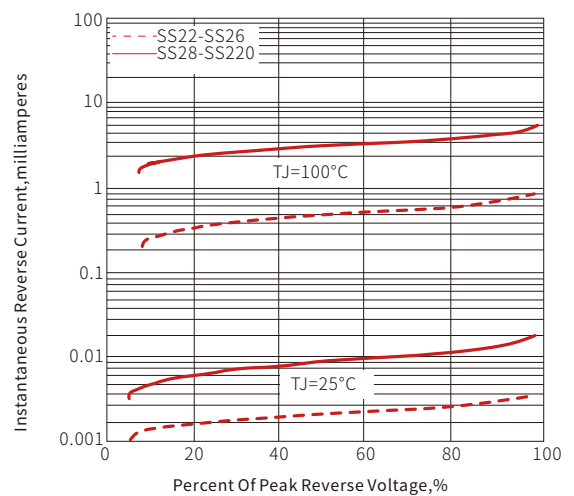
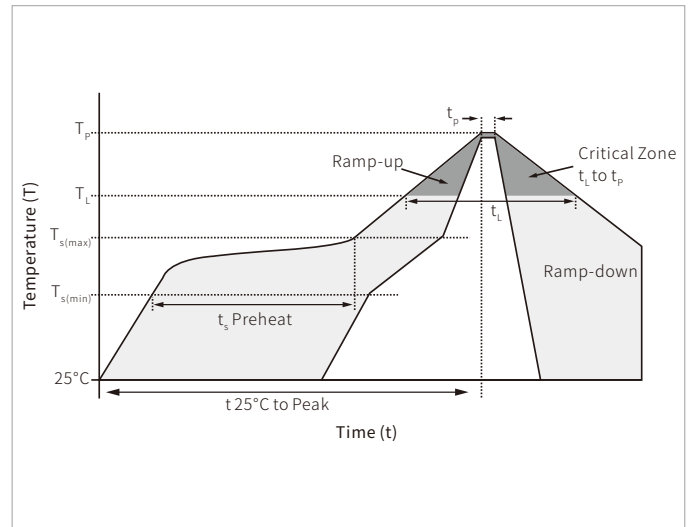


Fig. 4- Typical Reverse Leakage Characteristics

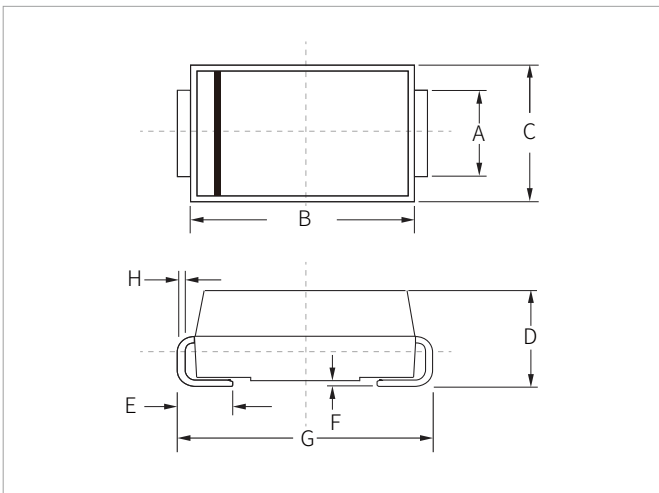


## SOLDERING PARAMETERS

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Max ( $T_{s(min)}$ )	150°C
	Temperature Max ( $T_{s(max)}$ )	200°C
	Time (min to max) ( $t_s$ )	60 – 180 secs
Average ramp up rate (Liquidus Temp ( $T_L$ ) to peak)		3°C/second max
$T_{s(max)}$ to $T_L$ - Ramp-up Rate		3°C/second max
Reflow	Temperature ( $T_L$ ) (Liquidus)	217°C
	Time (min to max) ( $t_l$ )	60 – 150 seconds
Peak Temperature ( $T_p$ )		260°C
Time within 5°C of actual peak Temperature ( $t_p$ )		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature ( $T_p$ )		8 minutes max.
Do not exceed		260°C

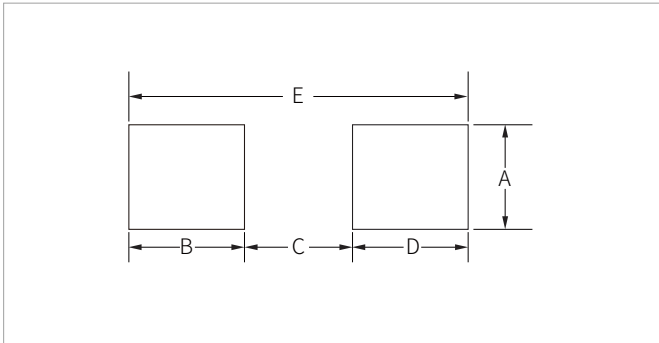


## DO-214AA(SMB) PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.80	2.20	0.071	0.087
B	4.30	4.70	0.170	0.185
C	3.40	3.90	0.134	0.153
D	2.15	2.75	0.085	0.108
E	1.00	1.50	0.039	0.059
F	0.02	0.20	0.001	0.008
G	5.10	5.50	0.200	0.216
H	0.15	0.30	0.006	0.012

## RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.20	-	0.087	-
B	1.45	-	0.057	-
C	-	2.55	-	0.010
D	1.45	-	0.057	-
E	5.60REF		0.220REF	

## ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SS22B-SS220B	DO-214AA(SMB)	3000PCS	13"

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Website



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