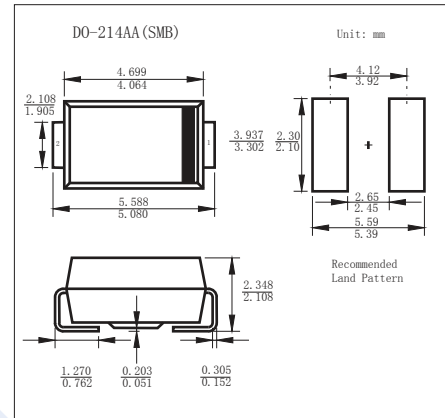


## Passivated Rectifier

## S3AB-S3MB

## ■ Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop and High Current Capability
- Surge Overload Rating to 100A Peak
- Ideally Suited for Automated Assembly

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	$V_{RWM}$								
DC Blocking Voltage	$V_{DC}$								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	
Averaged Rectified Output Current @ $T_T=75^\circ\text{C}$	$I_o$	3.0							A
Peak Forward Surge Current 8.3ms	$I_{FSM}$	100							
Forward Voltage @ $T_F=3\text{A}$	$V_{FM}$	1.15							V
Peak Reverse Current @ $T_A=25^\circ\text{C}$	$I_{RM}$	10							$\mu\text{A}$
at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$		250							
Typical Total Capacitance *1	$C_T$	40							pF
Thermal Resistance Junction to Terminals *2	$R_{\theta JT}$	10							$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	150							$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-65 to 150							

\*1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

\*2. Thermal resistance: Junction to Terminal, unit mounted on PC board with 5.0 mm

## ■ Marking

NO.	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB
Marking	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB

## Passivated Rectifier

### S3AB-S3MB

#### ■ Typical Characteristics

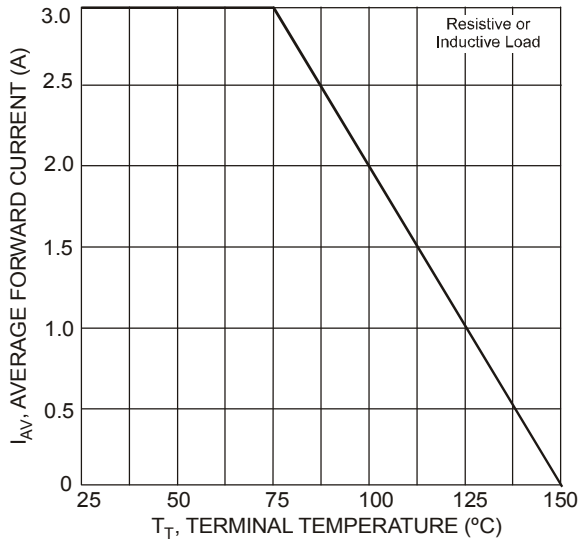


Fig. 1 Forward Current Derating Curve

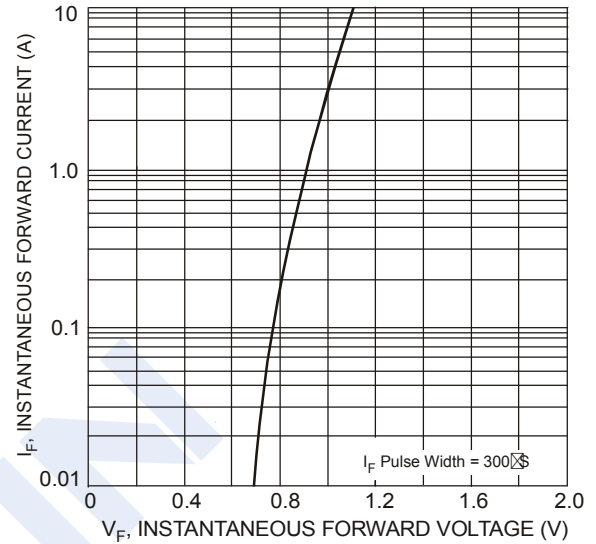


Fig. 2 Typical Forward Characteristics

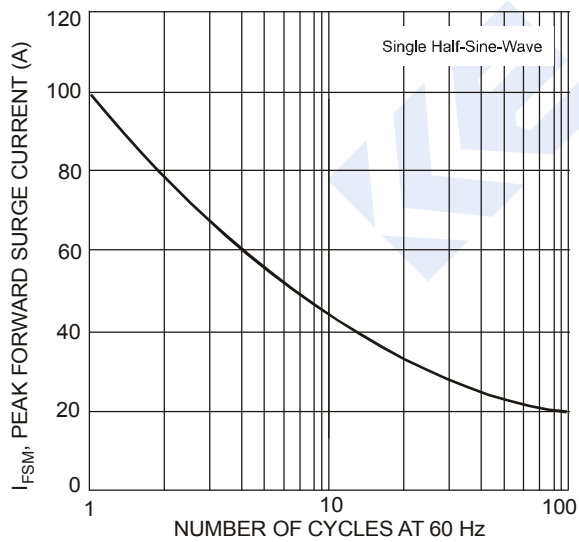


Fig. 3 Forward Surge Current Derating Curve

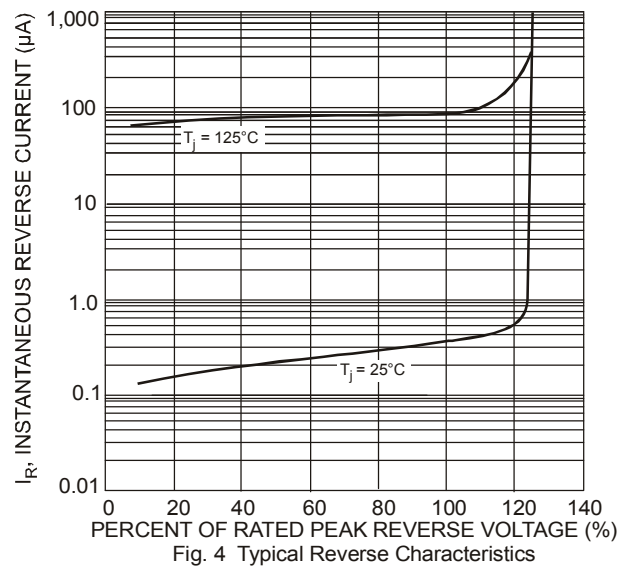


Fig. 4 Typical Reverse Characteristics