



# S3AB THRU S3MB

## Surface Mount Standard Rectifiers

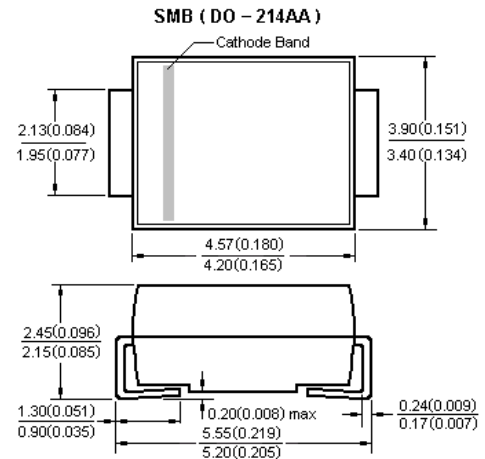
### Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junctions
- Fast switching for high efficiency
- High forward surge capability
- High temperature soldering:  
260°C/10 seconds at terminals
- Component in accordance to  
RoHS 2002/95/1 and WEEE 2002/96/EC



### Mechanical Date

- **Case:** JEDEC DO-214AA molded plastic body over glass passivated chip
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end



Dimensions in millimeters and (inches)

### Maximum Ratings and Electrical Characteristics Rating at 25 °C

ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	SYMBOL	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	Unit
Maximum Recurrent 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
Average Rectified Output Current @ $T_L = 90^\circ C$	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	100							A
Forward Voltage @ $I_F = 3.0A$	$V_{FM}$	1.1							V
Peak Reverse Current @ $T_A = 25^\circ C$	$I_R$	5.0							$\mu A$
At Rated DC Blocking Voltage @ $T_A = 125^\circ C$		100							
$I^2t$ Rating for fusing ( $t < 8.3ms$ )	$I^2t$	26.56							$A^2s$
Typical Junction Capacitance (Note 1)	$C_J$	53							pF
Typical Thermal Resistance Junction to Ambient (Note 2)	$R_{\theta JA}$	47							$^\circ C/W$
	$R_{\theta JC}$	18							
Operating Temperature Range	$T_J$	-55 to +150							$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ C$

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

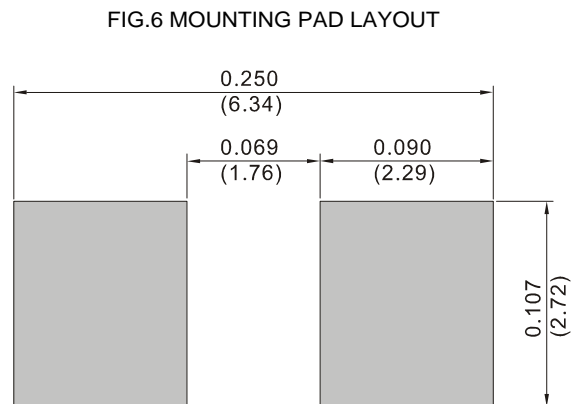
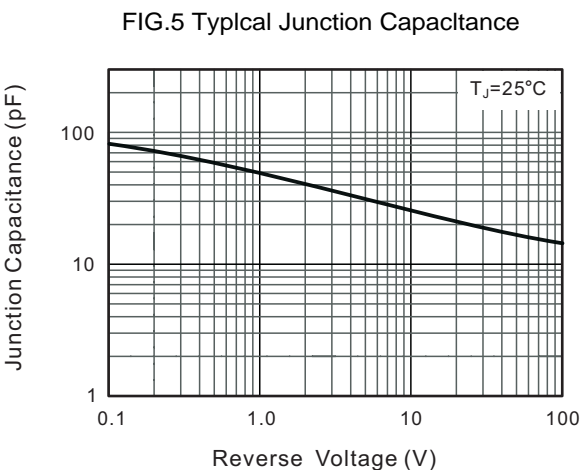
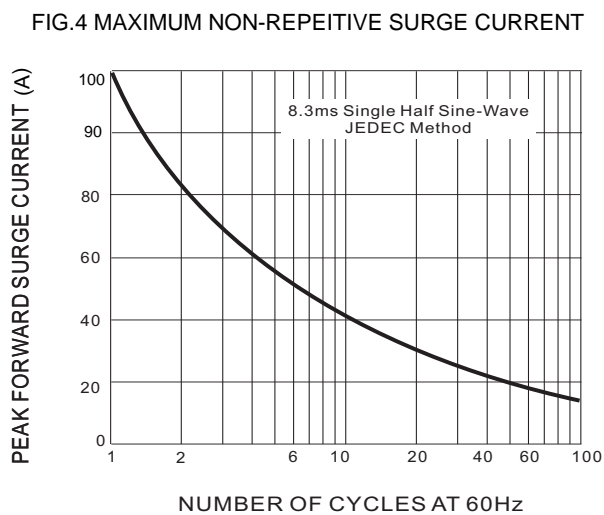
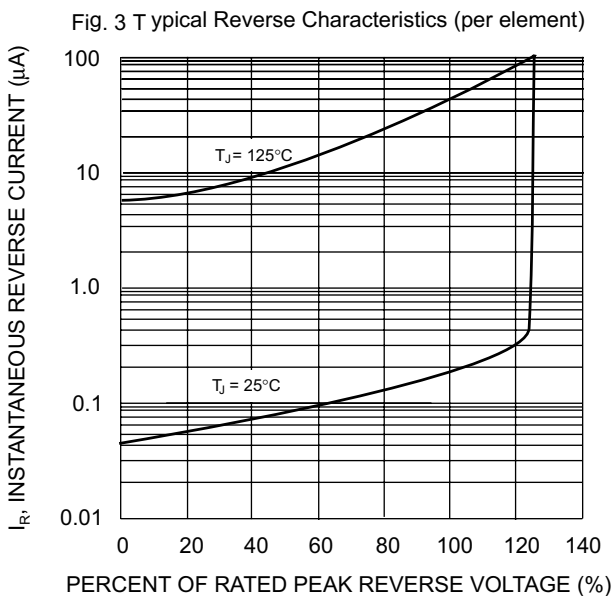
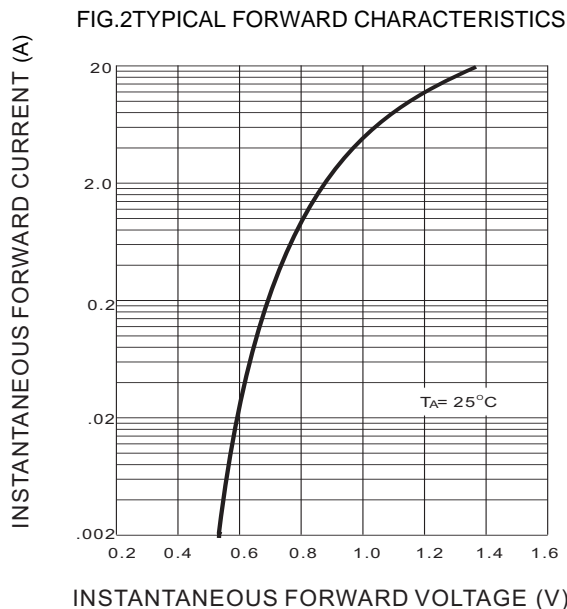
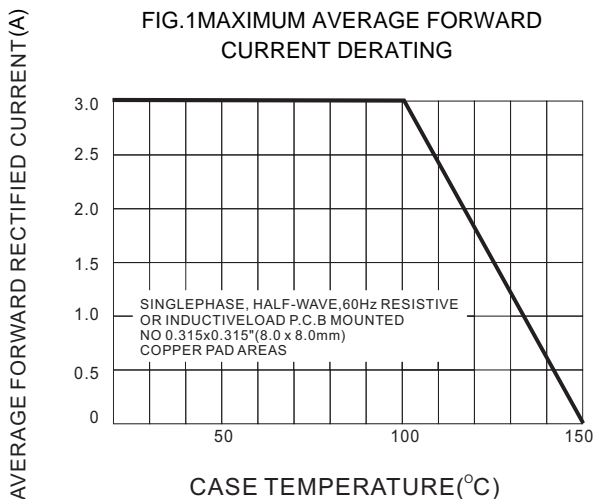
2. Thermal Resistance from Junction to Ambient at 0.375(9.5mm) lead length .



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### Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)



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