

S3AB thru S3MB

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 3.0 Amperes

FEATURES

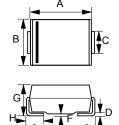
- Glass passivated chip
- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

• Case : Molded plastic

Polarity: Color band denotes cathodeWeight: 0.003 ounces, 0.093 grams

SMB



SMB								
DIM.	MIN. MAX							
Α	4.06	4.57						
В	3.30	3.94						
С	1.96	2.21						
D	0.15	0.31						
Е	5.21	5.59						
F	0.05	0.20						
G	2.01	2.40						
Н	0.76	1.52						
All Dimensions in millimeter								

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

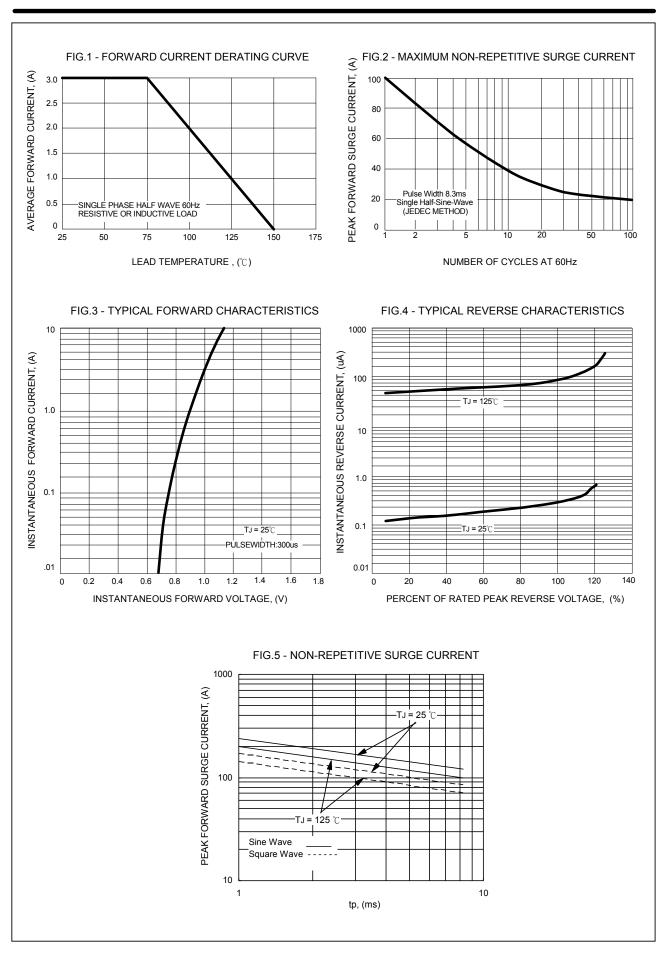
				0000	0000	0000	20.15	001/0	00115	
CHARACTERISTICS		SYMBOL	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TL =75°C		I(AV)	3.0							Α
Peak Forward Surge Current (Non-repetitive)	8.3ms single half $Tj=25^{\circ}$ C sine-wave $Tj=125^{\circ}$ C	- IFSM	120 100 240 200						A	
	1ms single half Tj=25°C sine-wave Tj=125°C									
Maximum forward Voltage at 3.0A DC		VF	1.15						V	
Maximum DC Reverse Current @TJ =25°C at Rated DC Blocking Voltage @TJ =125°C		lR	10 250						uA	
I^2t Rating for fusing (3ms $\leq t \leq$ 8.3ms)		l ² t	42							A ² S
Typical Junction Capacitance (Note 1)		Сл	40						pF	
Typical Thermal Resistance (Note 2)		Rejl	10						°C/W	
Typical Thermal Resistance (Note 3)		Reja	50							°C/W
Operating Temperature Range		TJ	-55 to +150						c	
Storage Temperature Range		Tstg	-55 to +150						°C	

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

- 2. Thermal Resistance Junction to Lead.
- 3. Thermal Resistance Junction to Ambient.

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