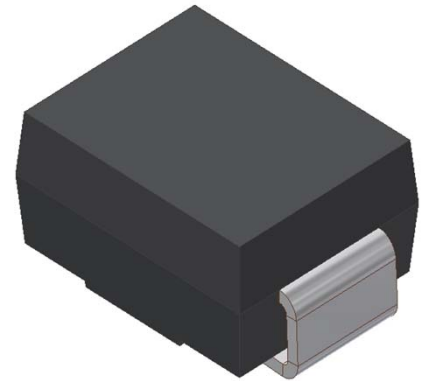


# S3MB

Surface Mount Glass Passivated Rectifiers  
Reverse Voltage 1000V Forward Current 3.0A

## 1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- High temperature metallurgically bonded construction.
- Cavity-free glass passivated junction.
- Capable of meeting environmental standards of MIL-S-19500.
- High temperature soldering guaranteed:260°C/10 seconds.
- Weight: 0.088g



## 2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S3MB	S3M	4000/Tape&Reel

## 3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC blocking voltage	VDC	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at TC = 75°C	IF(AV)	3	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80	A
Typical thermal resistance (Note 1)	RθJA	160	°C/W
	RθJC	50	
Operating junction and storage temperature range	TJ, TSTG	-50 ~+150	°C

## 4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Maximum instantaneous forward voltage at 3.0A	VF	-	-	1.1	V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TJ = 125°C	IR	-	-	5	μA
		-	-	100	
Typical junction capacitance at 4.0V, 1MHz	CJ	-	28	-	PF

1. 8.0mm<sup>2</sup> (.013mm thick) land areas

### 5. ELECTRICAL CHARACTERISTICS CURVES

Fig. 1 - Forward Current Derating Curve

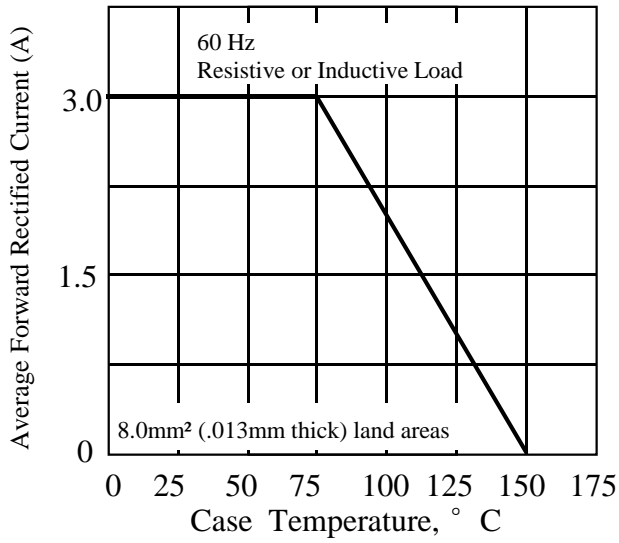


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

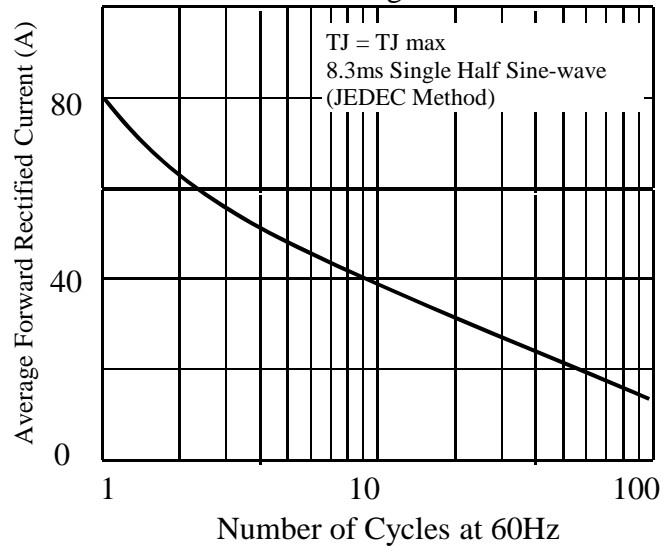


Fig. 3 - Typical Instantaneous Forward Characteristics

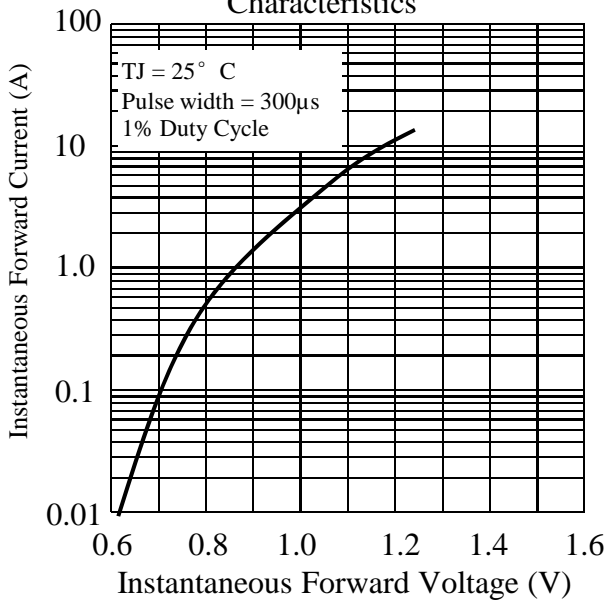


Fig. 4 - Typical Reverse Characteristics

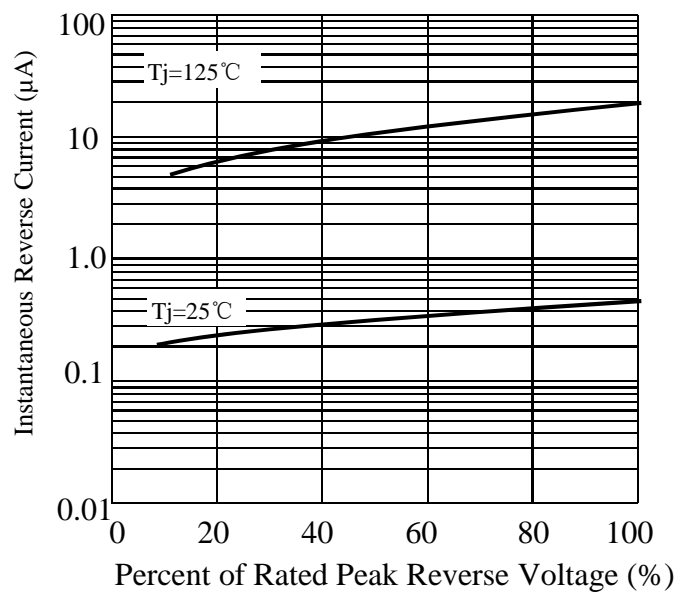
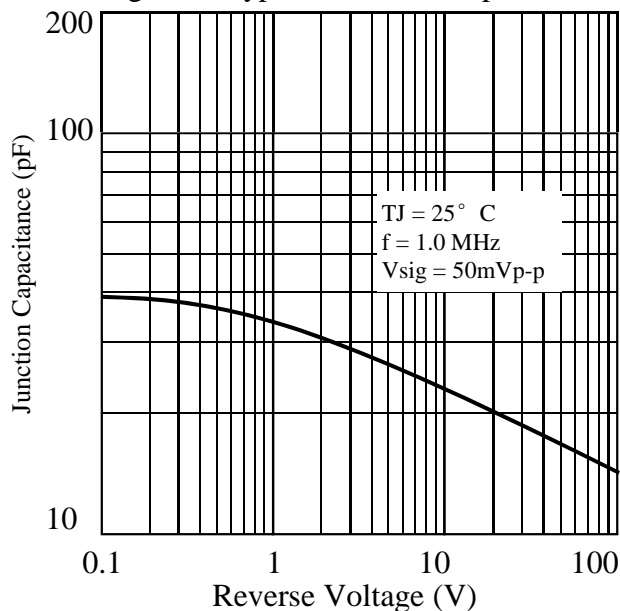
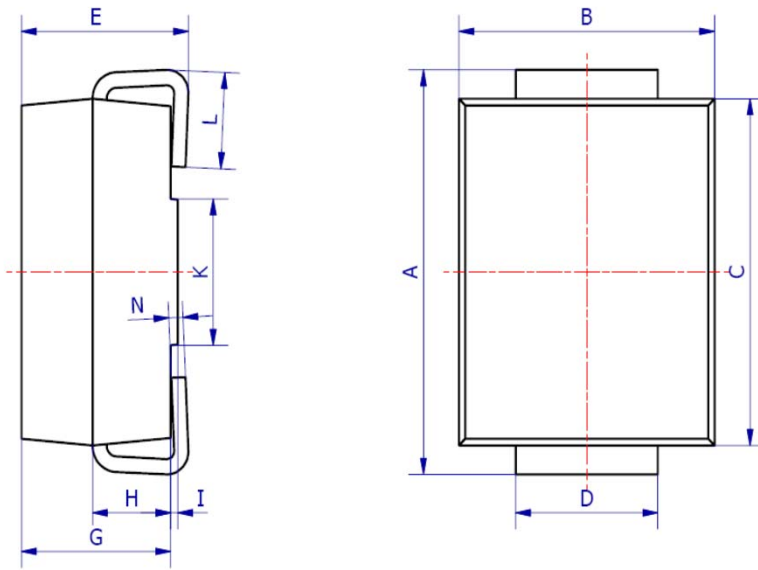


Fig. 5 - Typical Junction Capacitance

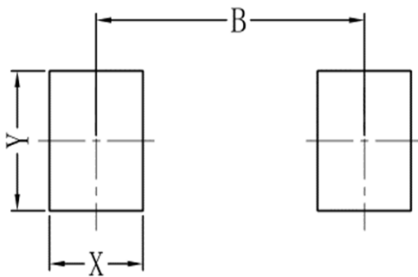


## 6. OUTLINE AND DIMENSIONS



SMB			
DIM	Min	Max	Typ.
A	5.20	5.45	5.25
B	3.20	4.00	3.60
C	4.30	4.60	4.50
D	1.80	2.20	2.00
E	2.20	2.50	2.35
G	1.90	2.30	2.10
H	0.95	1.25	1.10
I	0.05	0.15	0.10
K	1.70	2.10	1.90
L	1.00	1.50	1.30
N	0.10	0.30	0.20
All Dimensions in mm			

## 7. SOLDERING FOOTPRINT



SMB	
DIM	(mm)
X	1.60
Y	2.20
B	4.60

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