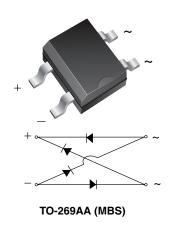


Vishay General Semiconductor

Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier



PRIMARY CHARACTERISTICS					
I _{F(AV)}	0.5 A				
V _{RRM}	200 V, 400 V, 600 V				
I _{FSM}	30 A				
I _R	5 μΑ				
V_{F}	1.0 V				
T _J max.	150 °C				

FEATURES

- UL recognition, file number E54214
- Saves space on printed circuit boards
- Ideal for automated placement
- Middle surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 250 °C
- RoHS COMPLIANT
- Solder dip 260 °C, 40 s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

TYPICAL APPLICATIONS

General purpose use in ac-to-dc bridge full wave rectification for power supply, lighting ballaster, battery charger, home appliances, office equipment, and telecommunication applications.

MECHANICAL DATA

Case: TO-269AA (MBS)

Epoxy meets UL 94V-0 flammability rating

Terminals: Matte tin plated leads, solderable per

J-STD-002 and JESD22-B102

E3 suffix for consumer grade, meets JESD 201 class

1A whisker test

Polarity: As marked on body

MAXIMUM RATINGS (T _A = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	B2S	B4S	B6S	UNIT	
Device marking code		B2	B4	B6		
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	V	
Maximum RMS voltage	V _{RMS}	140	280	420	V	
Maximum DC blocking voltage	V _{DC}	200	400	600	V	
Maximum average forward output rectified current on glass-epoxy P.C.B. (Fig. 1)	I _{F(AV)}	0.5 (1)			А	
Peak forward surge current 10 msec single half sine-wave superimposed on rated load	I _{FSM}	30			А	
Rating for fusing (t < 8.3 ms)	l ² t	5.0			A ² s	
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150			°C	

Note:

(1) On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3 mm) pads

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)							
PARAMETER	TEST CONDITIONS		SYMBOL	VALUE	UNIT		
Max. instantaneous forward voltage drop per diode	0.5 A		V _F	1.0	V		
Maximum DC reverse current at rated DC blocking voltage per diode		T _A = 25 °C T _A = 125 °C	I _R	5.0 100	μΑ		
Typical junction capacitance per diode	4.0 V, 1 MHz		CJ	13	pF		

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THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	B2S	B4S	B6S	UNIT	
Typical thermal resistance ⁽¹⁾	$R_{ hetaJA} \ R_{ hetaJL}$	90 40		°C/W		

Note:

(1) On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3 mm) pads

ORDERING INFORMATION (Example)						
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE		
B2S-E3/80	0.22	80	3000	13" diameter paper tape and reel		

RATINGS AND CHARACTERISTICS CURVES

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

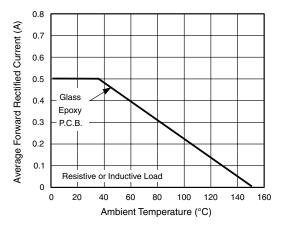


Figure 1. Derating Curve for Output Rectified Current

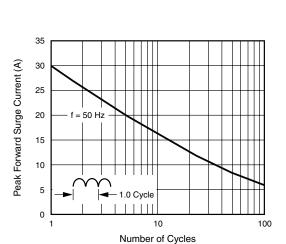


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

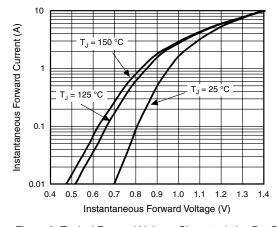


Figure 3. Typical Forward Voltage Characteristics Per Diode

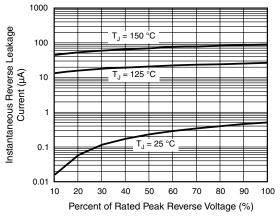


Figure 4. Typical Reverse Leakage Characteristics Per Diode



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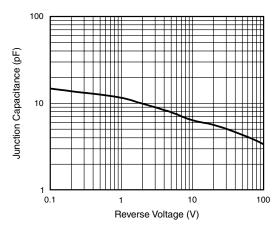
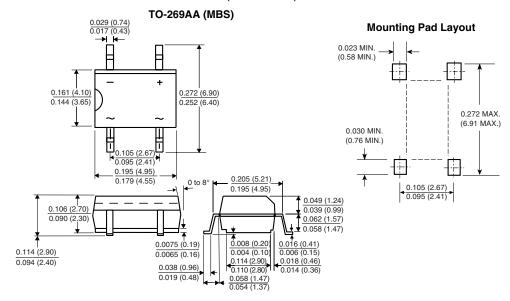


Figure 5. Typical Junction Capacitance Per Diode

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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