

EDB201S THRU EDB205S

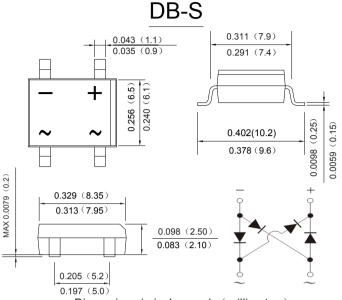
SINGLE PHASE 2.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

- · Glass passivated die construction
- · Low forward voltage drop
- High current capability
- · High surge current capability
- · Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

- · Case: DB-S, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- · Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	EDB201S	EDB202S	EDB203S	EDB204S	EDB205S	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	V
	VRWM						
	VDC						
RMS Reverse Voltage	VRMS	35	70	140	280	420	V
Average Rectified Output Current (Note 1)@Tc=100℃	IF(AV)	2.0					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	60					А
I ² t Rating for Fusing (t < 8.3ms)	l ² t	14.94					A ² s
Forward Voltage per element @IF=2.0A	VFM		0.95		1.25	1.7	V
Peak Reverse Current @Ta=25℃ At Rated DC Blocking Voltage @Ta=125℃	IR	5.0 200					uA
Maximum reverse recovery time	T _{RR}	35					ns
Typical Junction Capacitance per leg (Note 2)	СJ	13					pF
Typical Thermal Resistance per leg	RөJA	70					°C/W
	Rejl	20					
Operating and Storage Temperature Range	Т _Ј ,Тѕтс	-55to+150					$^{\circ}$ C

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad. 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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Fig. 2 Typical Forward Characteristics (per leg) I_F, INSTANTANEOUS FORWARD CURRENT (A) EDB201S-EDB EDB20 2.0 0.1 T_A= 25°C Pulse Width = 300μs 0.01 0.3 0.6 0.9 1.2 1.5 1.8 V_F, INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 3 Maximum Peak Forward Surge Current (per leg)

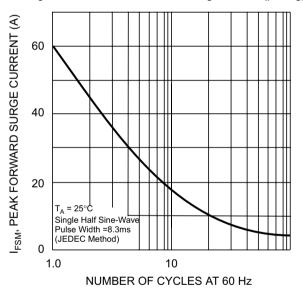


Fig. 4 Typical Reverse Characteristics (per element)

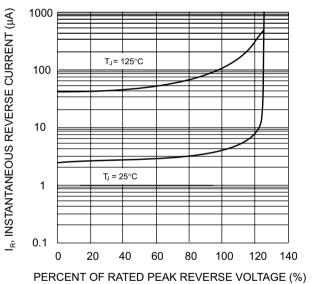
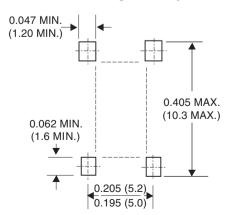


Fig. 5 Mounting Pad Layout





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