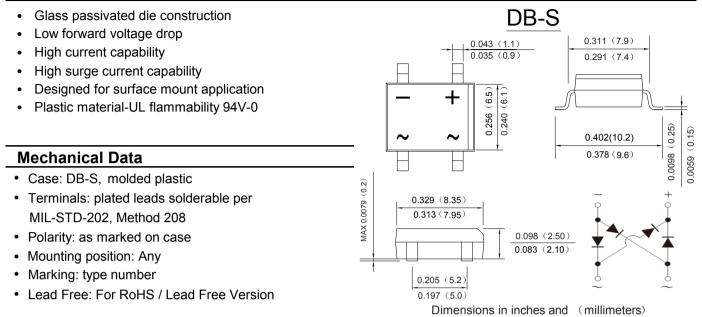


EDB101S THRU EDB105S

SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	EDB101S	EDB102S	EDB103S	EDB104S	EDB105S	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°C	IF(AV)	1.0					А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	45					A
I ² t Rating for Fusing (t < 8.3ms)	²t	8.404					A ² s
Forward Voltage per element @IF=1.0A	Vfm		0.95		1.25	1.7	V
Peak Reverse Current @Ta=25℃ At Rated DC Blocking Voltage @Ta=125℃	lr	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	Reja	70					°C/W
	Rejl	20					
Operating and Storage Temperature Range	TJ,TSTG	-55to+150					°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)

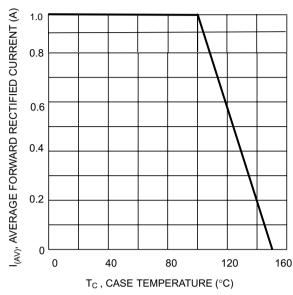


Fig. 3 Maximum Peak Forward Surge Current (per leg)

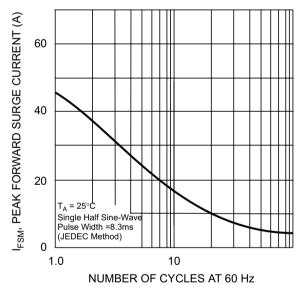
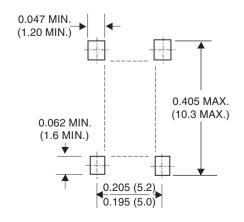


Fig. 5 Mounting Pad Layout



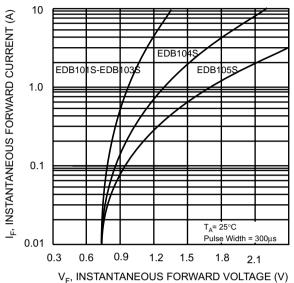
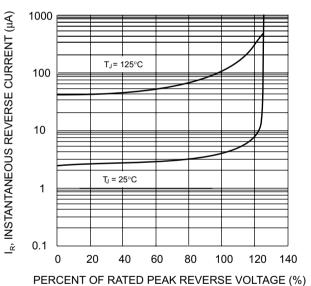


Fig. 4 Typical Reverse Characteristics (per element)





EDB101S THRU EDB105S

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