

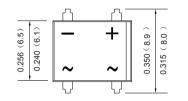
# **EDB101 THRU EDB105**

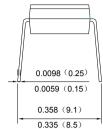
#### SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### **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

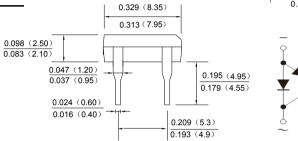
### DB-M





#### **Mechanical Data**

- · Case: DB-M, 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%.

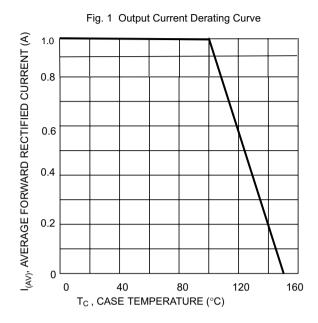
TYPE NUMBER	SYMBOL	EDB101	EDB102	EDB103	EDB104	EDB105	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	V
	VRWM						
	VDC						
RMS Reverse Voltage	VRMS	35	70	140	280	420	V
Average Rectified Output Current (Note 1)@Tc=100℃	IF(AV)	1.0					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	lгsм	45					А
$I^2$ t Rating for Fusing (t < 8.3ms)	l²t	8.404					A <sup>2</sup> 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 <sub>RR</sub>	35					ns
Typical Junction Capacitance per leg (Note 2)	СJ	13					pF
Typical Thermal Resistance per leg	RθJA	70					°C/W
	Rejl	20					
Operating and Storage Temperature Range	TJ,TSTG	-55to+150					$^{\circ}$ C

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

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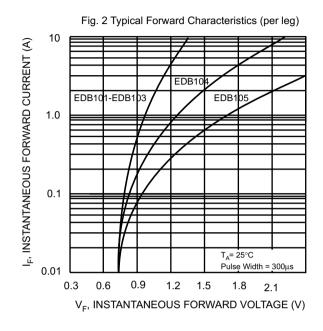
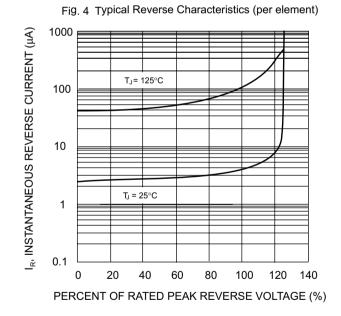


Fig. 3 Maximum Peak Forward Surge Current (per leg)

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