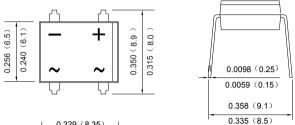


EDB301 THRU EDB305 SINGLE PHASE 3.0 AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

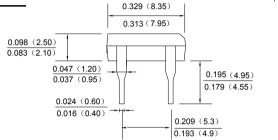
- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

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°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	EDB301	EDB302	EDB303	EDB304	EDB305	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)	3.0					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	80					А
l ² t Rating for Fusing (t < 8.3ms)	l²t	26.56					A ² s
Forward Voltage per element @IF=3.0A	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	RөJA	70					°C/W
	Rejl	20					
Operating and Storage Temperature Range	TJ,Tsтg	-55to+150					$^{\circ}$

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

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EDB301 THRU EDB305

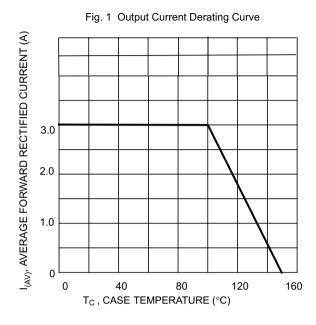


Fig. 2 Typical Forward Characteristics (per leg)

10

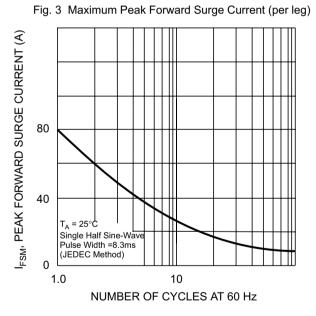
EDB301-EDB303

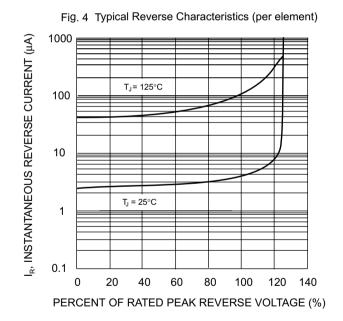
EDB305

EDB305

A Pulse Width = 300µs

V_F, INSTANTANEOUS FORWARD VOLTAGE (V)







EDB301 THRU EDB305

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