

EDB151 THRU EDB155

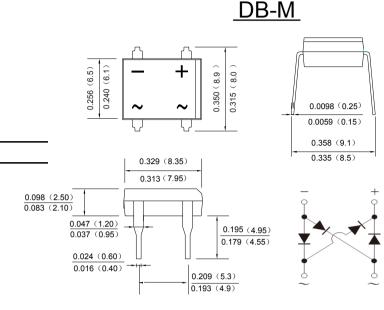
SINGLE PHASE 1.5AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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-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	EDB151	EDB152	EDB153	EDB154	EDB155	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)	1.5					А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	55					А
I ² t Rating for Fusing (t < 8.3ms)	l²t	12.554					A ² s
Forward Voltage per element @IF=1.5A	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)	CJ	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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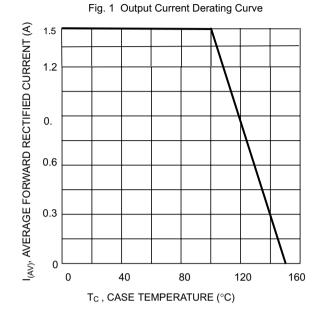
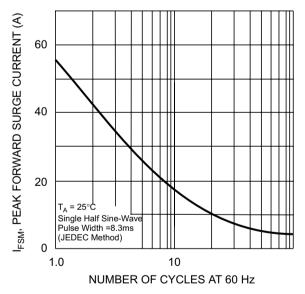


Fig. 3 Maximum Peak Forward Surge Current (per leg)



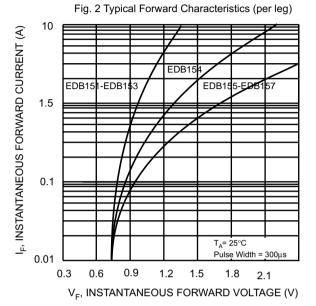
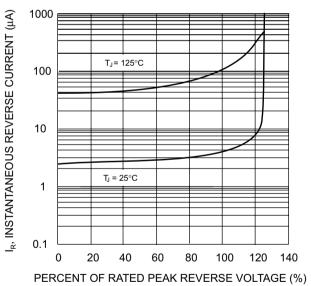


Fig. 4 Typical Reverse Characteristics (per element)





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