

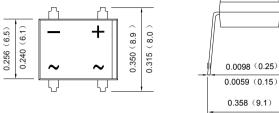
# RDB151 THRU RDB157

#### SINGLE PHASE 1.5AMP GLASS PASSIVATED BRIDGE RECTIFIER

#### **Features**

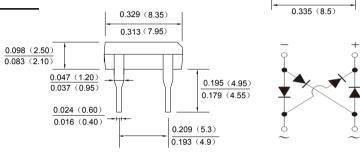
- Glass passivated die construction
- Low forward voltage drop
- · High current capability
- · High surge current capability
- · Designed for surface mount application
- Plastic material-UL flammability 94V-0

## 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%.

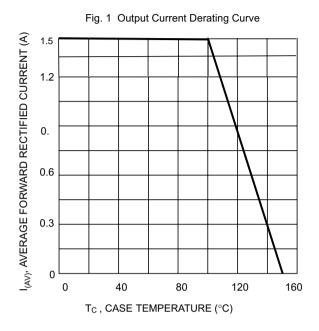
TYPE NUMBER	SYMBOL	RDB151	RDB152	RDB153	RDB154	RDB155	RDB156	RDB157	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM								
	VRWM	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=100℃	IF(AV)	1.5							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	55							А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	12.554							A <sup>2</sup> s
Forward Voltage per element @IF=1.5A	V <sub>FM</sub>	1.3							V
Peak Reverse Current @Ta=25℃ At Rated DC Blocking Voltage @Ta=125℃	lR	5.0 200							uA
Maximum reverse recovery time (Note 3)	T <sub>RR</sub>		150		250	500		ns	
Typical Junction Capacitance per leg (Note 2)	СJ		25						
Typical Thermal Resistance per leg	RөJA	40							°C/W
	Røjl	15							
Operating and Storage Temperature Range	TJ,TSTG		-55to+150						

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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1.0 T<sub>A</sub>= 25°C Pulse Width = 300μs V<sub>F</sub>, INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 2 Typical Forward Characteristics (per leg)

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

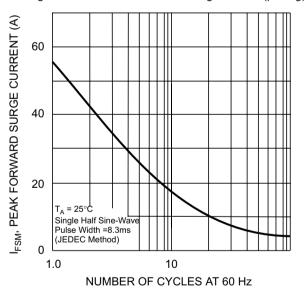
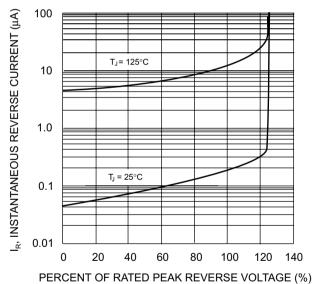


Fig. 4 Typical Reverse Characteristics (per element)





## RDB151 THRU RDB157

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