

## **DB151S THRU DB157S**

#### 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-S, molded plastic

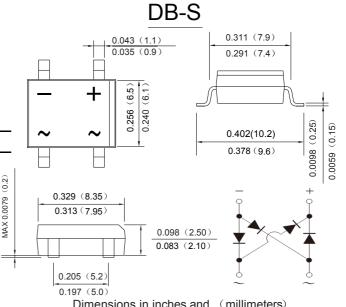
• Terminals: plated leads solderable per MIL-STD-202, Method 208

· 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	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	V
	VRWM								
	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							Α
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	12.554							A <sup>2</sup> s
Forward Voltage per element @IF=1.5A	VFM	1.0							V
Peak Reverse Current @Ta=25℃ At Rated DC Blocking Voltage @Ta=125℃	lR	5.0 200							uA
Typical Junction Capacitance per leg (Note 2)	Сл	25							pF
Typical Thermal Resistance per leg	RθJA	40							°C/W
	Rejl	15							
Operating and Storage Temperature Range	TJ,TSTG	-55to+150							$^{\circ}\!\mathbb{C}$

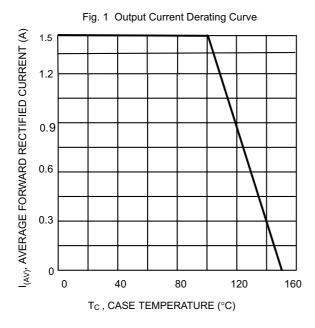
Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

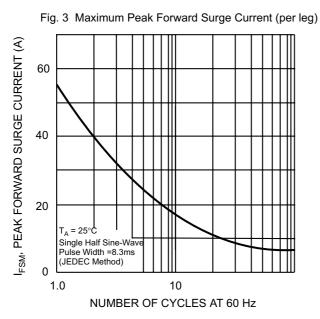
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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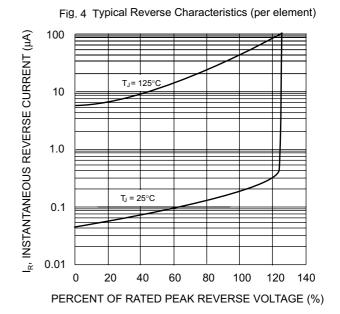
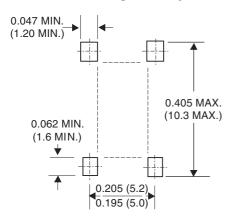


Fig. 5 Mounting Pad Layout





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