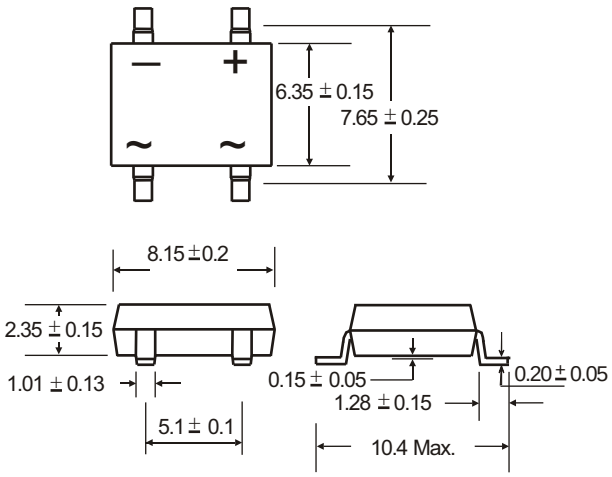
DB151S thru DB157S

1.5 A Single-Phase Glass Passivated Bridge Rectifiers

Rectifier Reverse Voltage 50 to 1000V

DB-S



Dimensions in millimeters (1mm =0.0394")

Features

- This series is UL listed under the Recognized Component Index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 50 amperes
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265 °C /10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

Case: Molded plastic
Terminals: Plated leads solderable per MIL-STD-202, Method 208
Polarity: Marked on body
Mounting Position: Any
Weight: 0.33 grams (approx)

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=40°C	IF(AV)	1.5							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	50							A
Rating for fusing (t<8.3ms)	I^2t	6.35							A^2sec
Typical thermal resistance per element (1)	ReJA	58							°C / W
Typical junction capacitance per element (2)	Cj	25.0							pF
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	Unit
Maximum instantaneous forward voltage drop per leg at 1.5A	VF	1.1							V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	10 500							μA

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.
(2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

Rating and Characteristic Curves (T_A=25°C Unless otherwise noted)
DB151S thru DB157S

Fig. 1 Derating Curve for Output Rectified Current

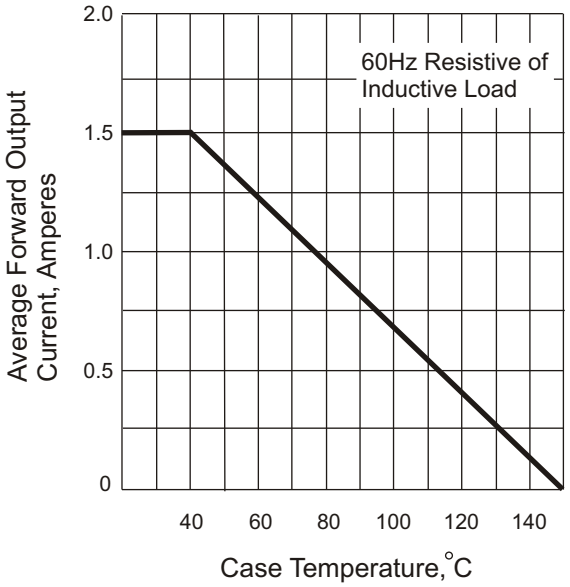


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

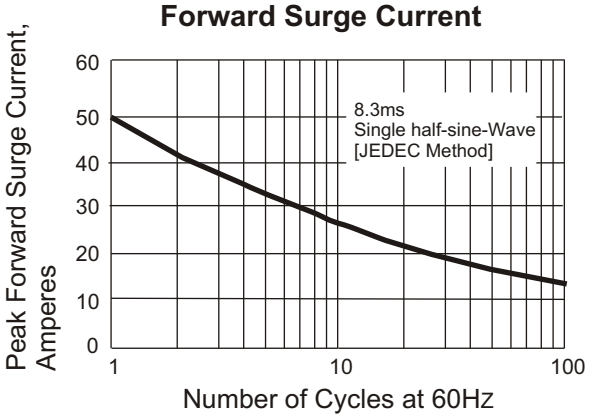


Fig. 3 Typical Instantaneous Forward Characteristics

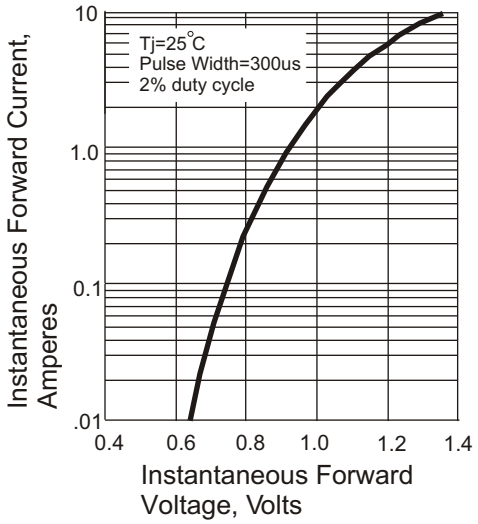


Fig. 4 Typical Revers Characteristics

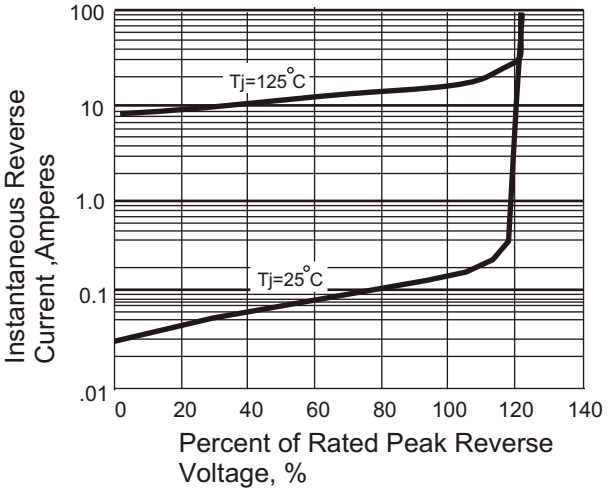
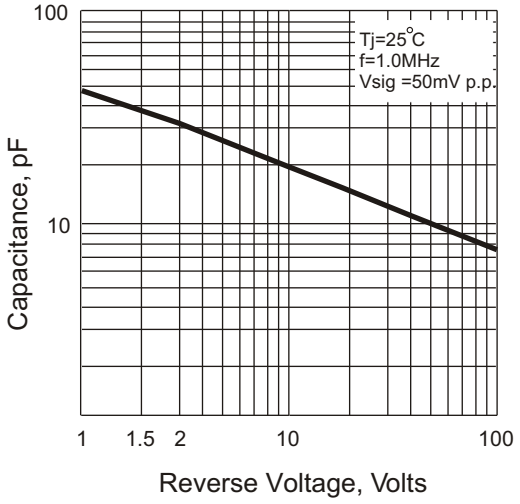


Fig. 5 Typical Junction Capacitance



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bridge Rectifiers ***category:***

Click to view products by Shandong Baocheng ***manufacturer:***

Other Similar products are found below :

MB252 MB356G MB358G MP358-BP 90MT160KPBF GBJ1504-BP GBU10B-BP GBU15J-BP GBU15K-BP GBU4A-BP GBU4D-BP GSIB680-E3/45 DB101-BP DBA150G DBA250G DBD10G-TM-E DBF10G DBG150G DBG250G DF01 DF10SA-E345 BU1508-E3/45 BU1510-E3/45 KBPC50-10S RS405GL-BP 26MT120 G5SBA60-E3/51 GBJ1502-BP GBU10J-BP GBU4J-BP GBU6M GBU8D-BP GBU8J-BP GSIB1520-E3/45 TB102M MB1510 MB6M-G MB86 TL401G MDA920A2 TU602 TU810 MP501W-BP MP502-BP BR1005-BP BR101-BP BR84DTP204 BU1010A-E3/51 BU1508-E3/51 BU2006-E3/45