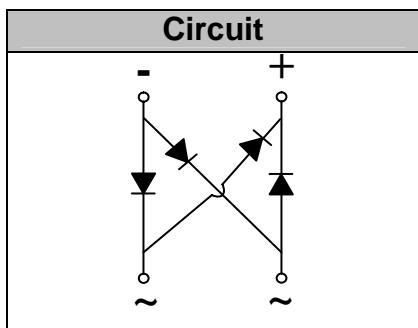


## Glass Passivated Single Phase Bridge Rectifiers

**Reverse Voltage** 200 to 1000V  
**Forward Current** 2.0 Amp



### Features

- Glass passivated die construction
- Ideal for automatic insertion
- Plastic material used carries UL flammability recognition 94V-0
- High surge current capability

### Mechanical Data

**Case:** Molded plastic case

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Polarity:** Marked on Body

**Mounting Position:** Any

### Module Type

TYPE	V <sub>RRM</sub>	V <sub>RSM</sub>
SDB203	200V	300V
SDB204	400V	500V
SDB205	600V	700V
SDB206	800V	900V
SDB207	1000V	1100V

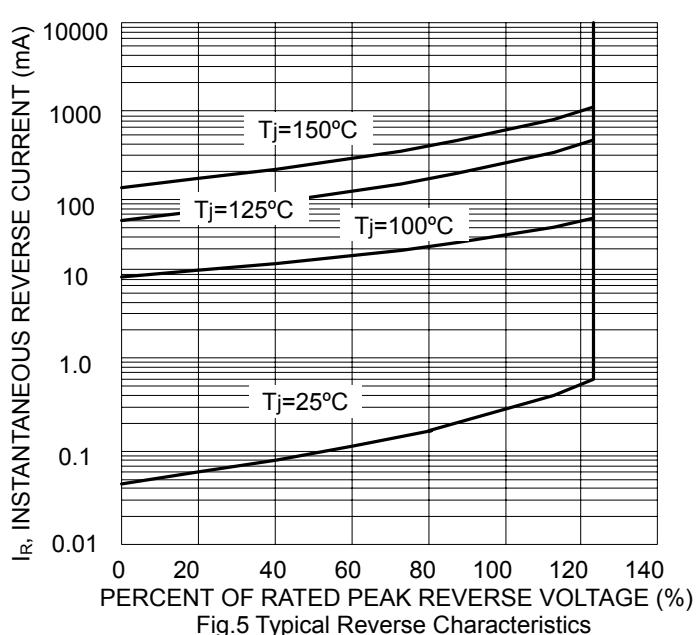
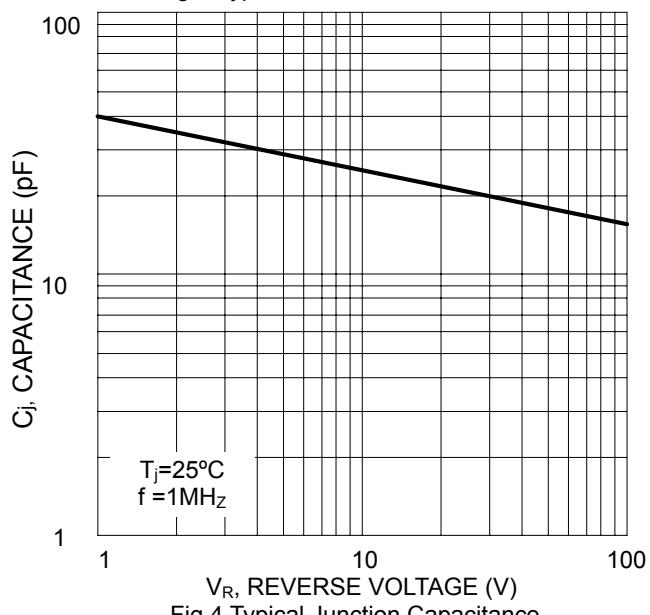
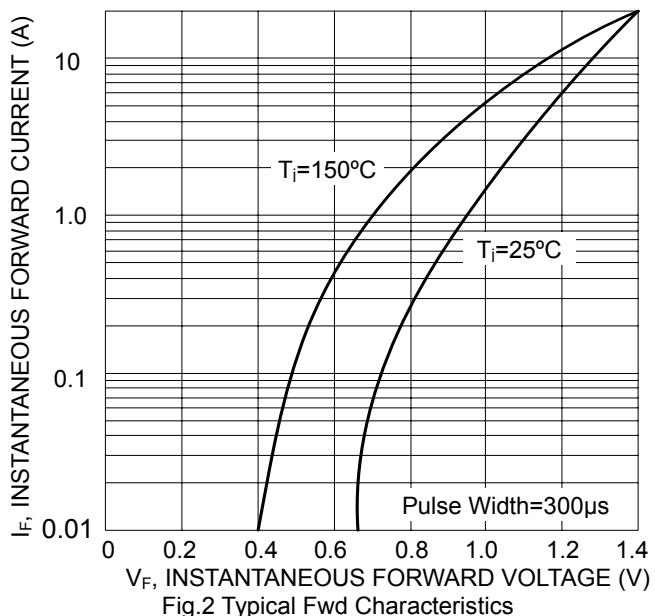
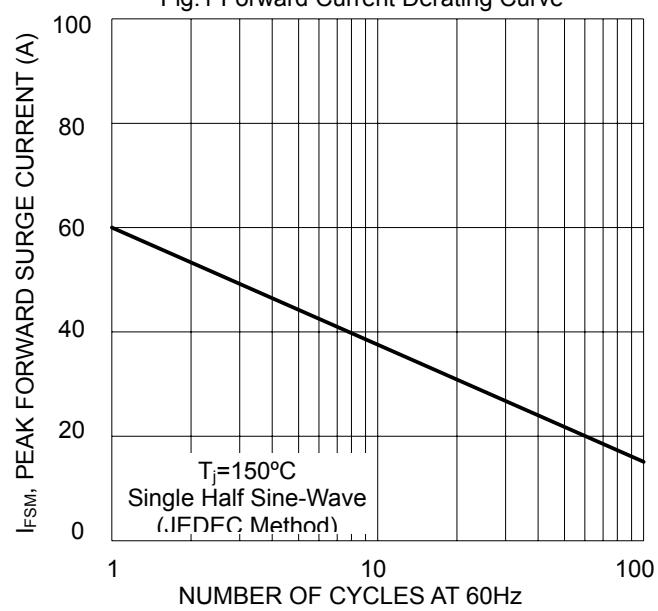
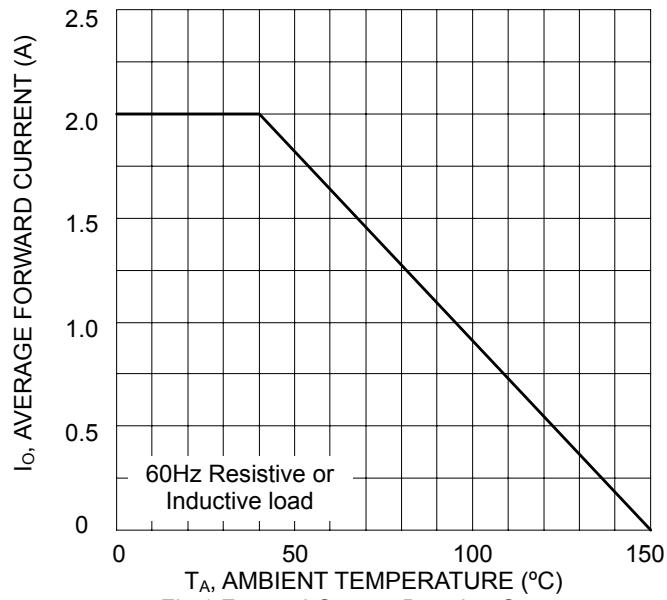
### Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Symbol	Conditions	Values	Units
I <sub>F(AV)</sub>	Maximum average forward output rectified current T <sub>c</sub> = 40°C	2.0	A
I <sub>FSM</sub>	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	60	A
i <sup>2</sup> t	Rating for fusing (t < 8.3ms)	15	A <sup>2</sup> s
V <sub>ISOL</sub>	a.c. 50Hz; r.m.s.; 1min	2500	V
R <sub>θJA</sub> R <sub>θJC</sub>	Maximum thermal resistance per leg	40 15	°C/W
T <sub>j</sub> , T <sub>STG</sub>	Operating Junction and storage temperature range	-55 to +150	°C
Weight	Approximate Weight	0.4	g

### Electrical Characteristics (TA = 25°C unless otherwise noted)

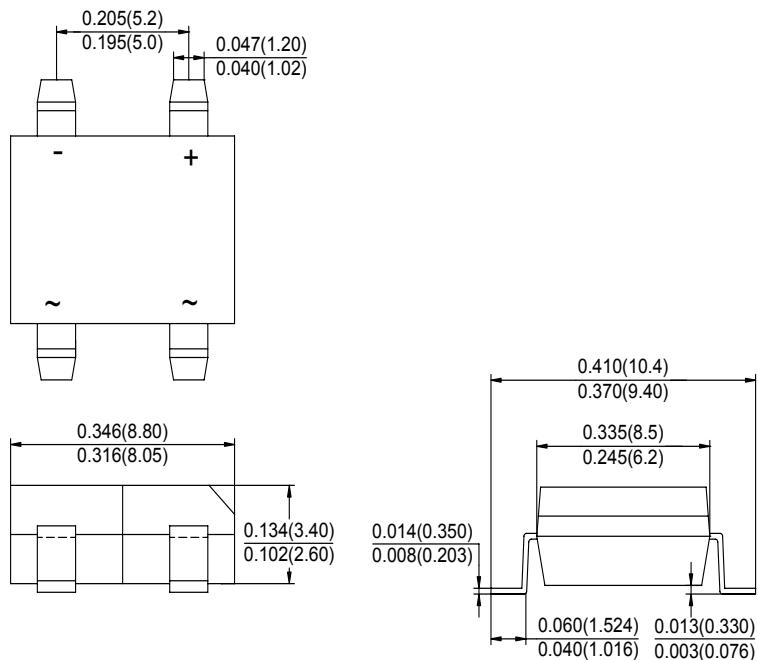
Symbol	Conditions	Values	Units
V <sub>F</sub>	Maximum Instantaneous Forward Voltage per leg I <sub>FM</sub> = 2.0A	1.1	V
I <sub>R</sub>	Maximum DC reverse current at rated DC blocking voltage per leg T <sub>A</sub> = 25°C T <sub>A</sub> = 125°C	5.0 500	μA
C <sub>J</sub>	Typical Junction Capacitance per leg V <sub>R</sub> = 4.0V 1.0MHz	25	pF

Notes: (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47x0.47" (12 x 12mm) copper pads.

**Performance Curves**


## Package Outline Information

## CASE: SDB-1



Dimensions in inches (mm)