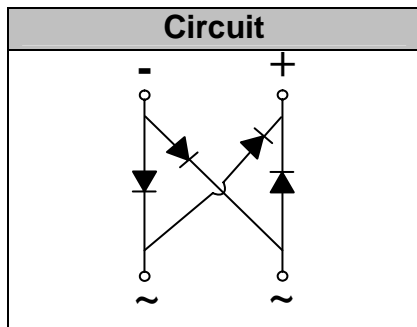


Glass Passivated Single Phase Bridge Rectifiers

Reverse Voltage 200 to 1000V
Forward Current 1.0 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	VRRM	VRSM
SDB103	200V	300V
SDB104	400V	500V
SDB105	600V	700V
SDB106	800V	900V
SDB107	1000V	1100V

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

Symbol	Conditions	Values	Units
IF(AV)	Maximum average forward output rectified current Tc = 40°C	1.0	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	30	A
i ² t	Rating for fusing (t<8.3ms)	3.7	A ² s
Visol	a.c.50HZ;r.m.s.;1min	2500	V
RθJA RθJC	Maximum thermal resistance per leg	40 15	°C/W
Tj, TSTG	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
VF	Maximum Instantaneous Forward Voltage per leg IFM = 1.0A	1.1	V
IR	Maximum DC reverse current at rated DC blocking voltage per leg TA = 25°C TA = 125°C	5.0 500	µA
CJ	Typical Junction Capacitance per leg VR=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 x12mm) copper pads.

Performance Curves

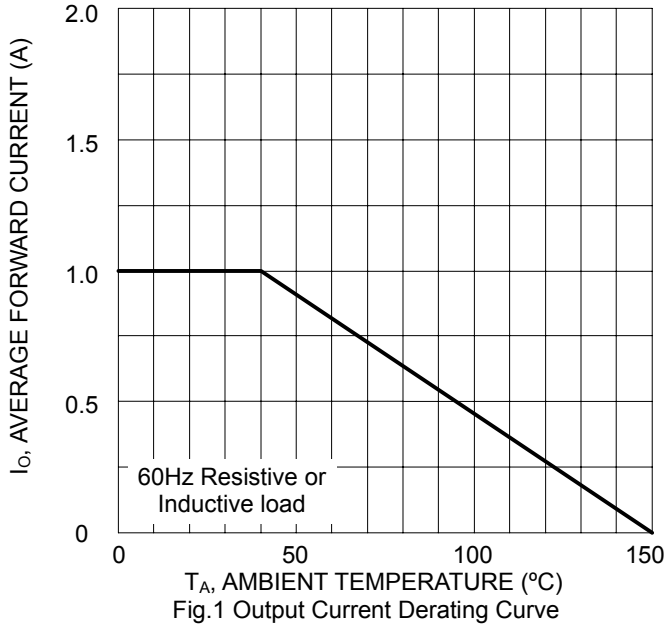


Fig.1 Output Current Derating Curve

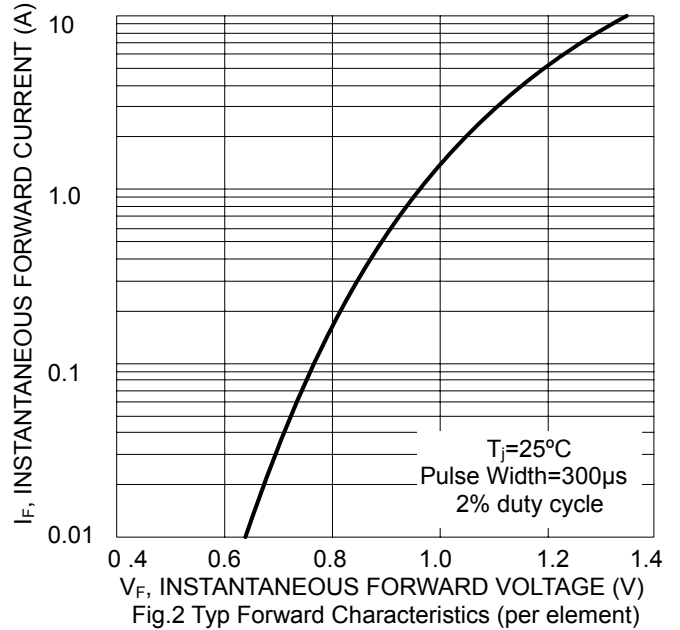


Fig.2 Typ Forward Characteristics (per element)

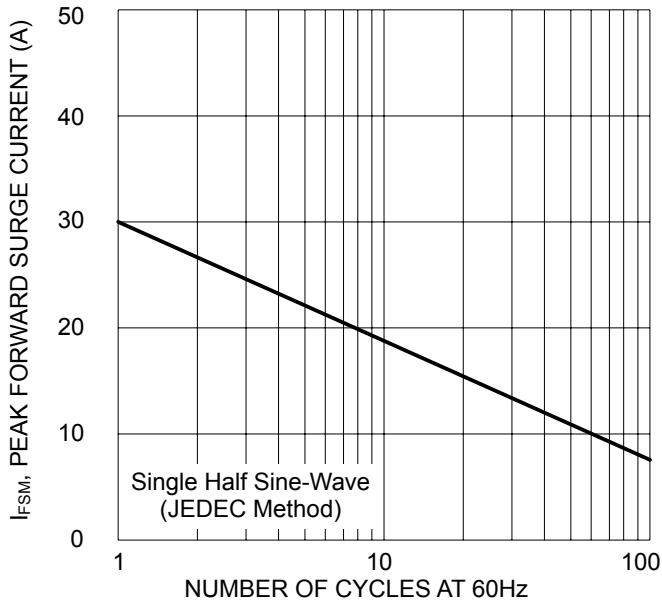


Fig.3 Max Non-Repetitive Peak Forward Surge Current

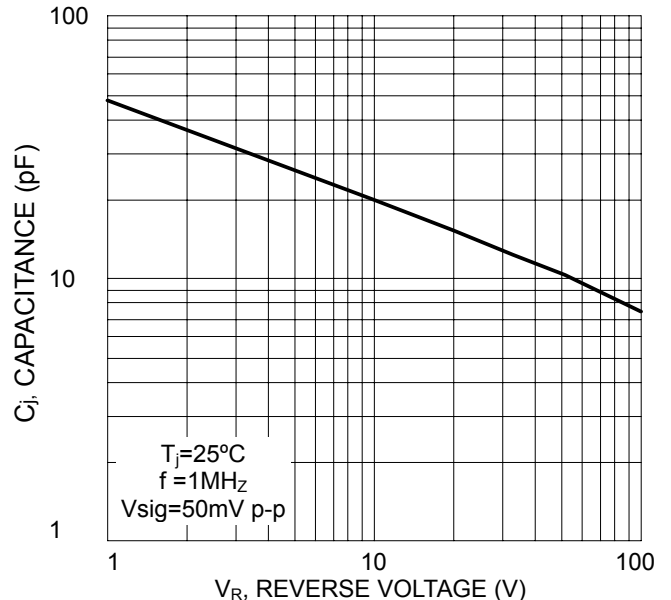


Fig.4 Typ Junction Capacitance (per element)

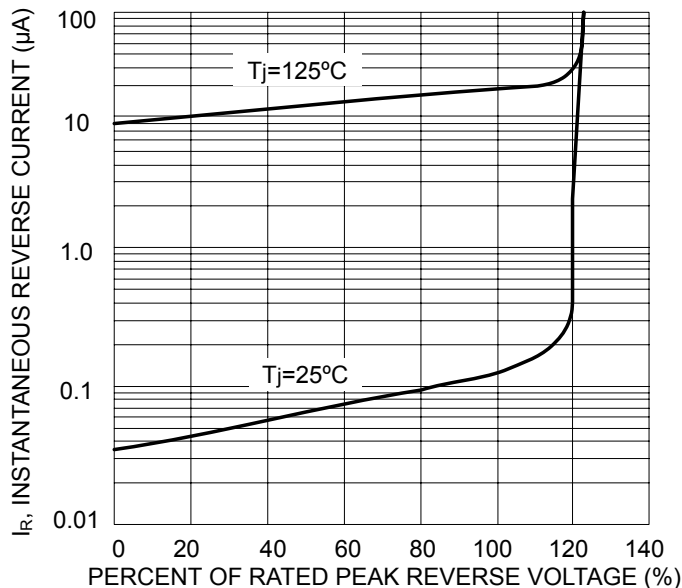
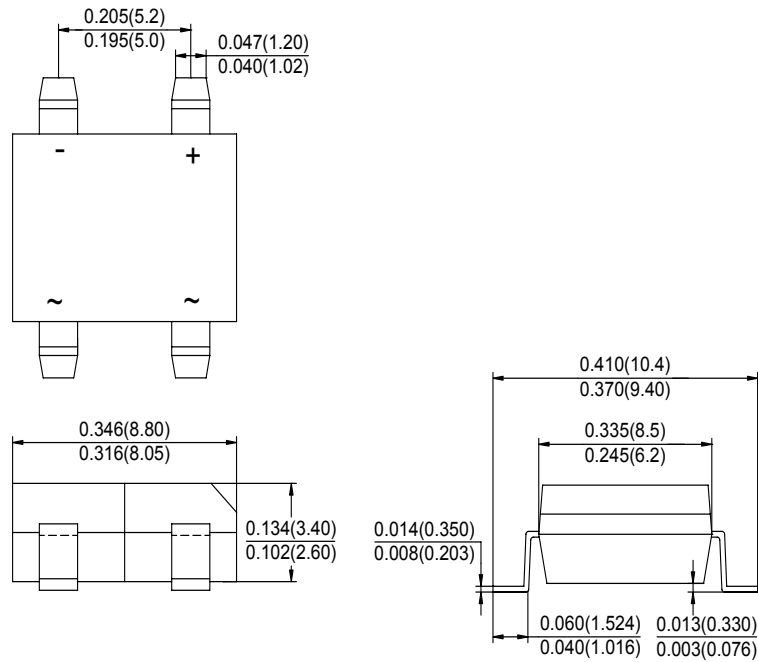


Fig.5 Typical Reverse Characteristics per element

Package Outline Information

CASE: SDB-1



Dimensions in inches (mm)