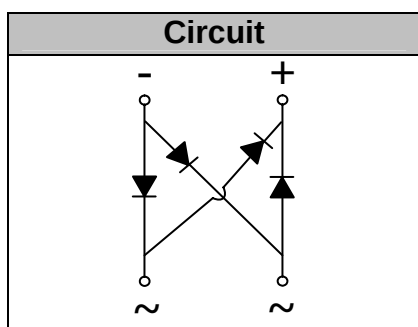


Glass Passivated Single Phase Bridge Rectifiers

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 _{RRM}	V _{RSM}
SDB203	200V	300V
SDB204	400V	500V
SDB205	600V	700V
SDB206	800V	900V
SDB207	1000V	1100V

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

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

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Symbol	Conditions	Values	Units
V _F	Maximum Instantaneous Forward Voltage per leg I _{FM} = 2.0A	1.1	V
I _R	Maximum DC reverse current at rated DC blocking voltage per leg T _A = 25°C T _A = 125°C	5.0 500	μA
C _J	Typical Junction Capacitance per leg V _R = 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

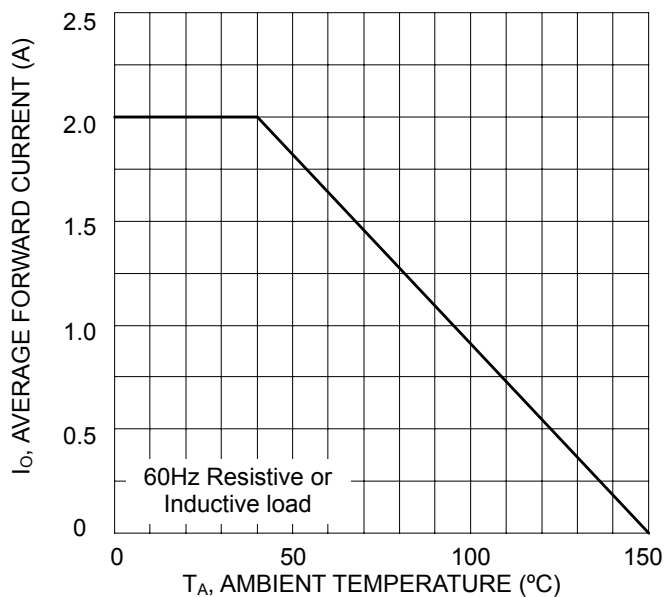


Fig.1 Forward Current Derating Curve

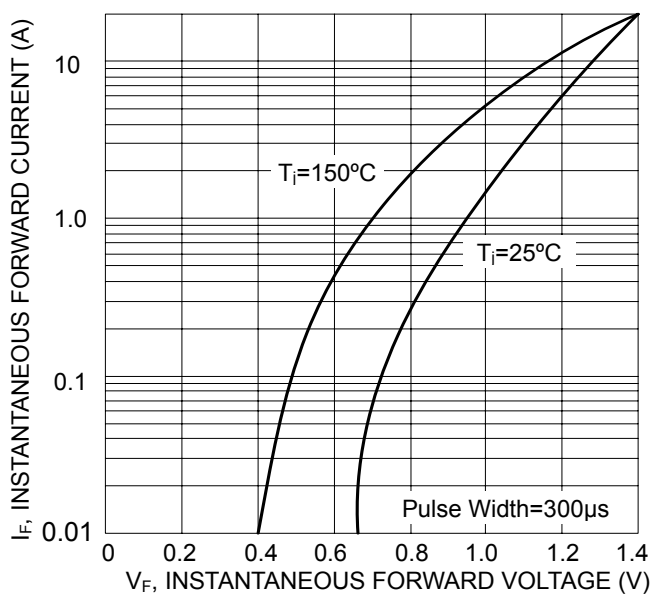


Fig.2 Typical Fwd Characteristics

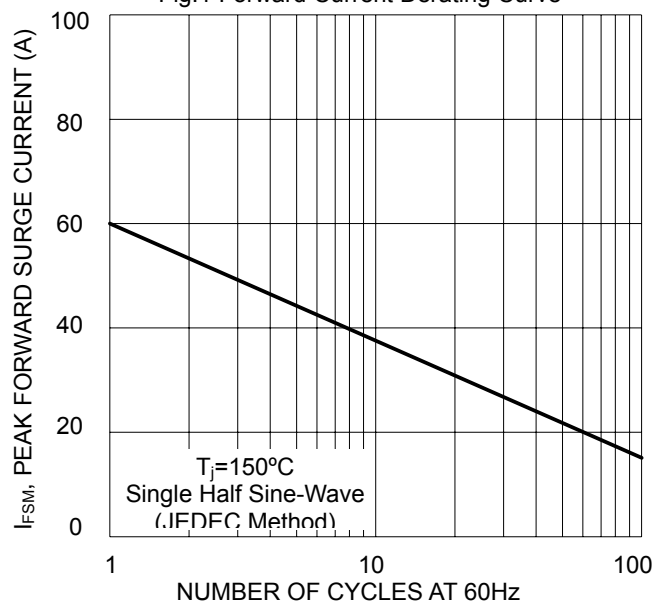


Fig.3 Max Non-Repetitive Peak Fwd Surge Current

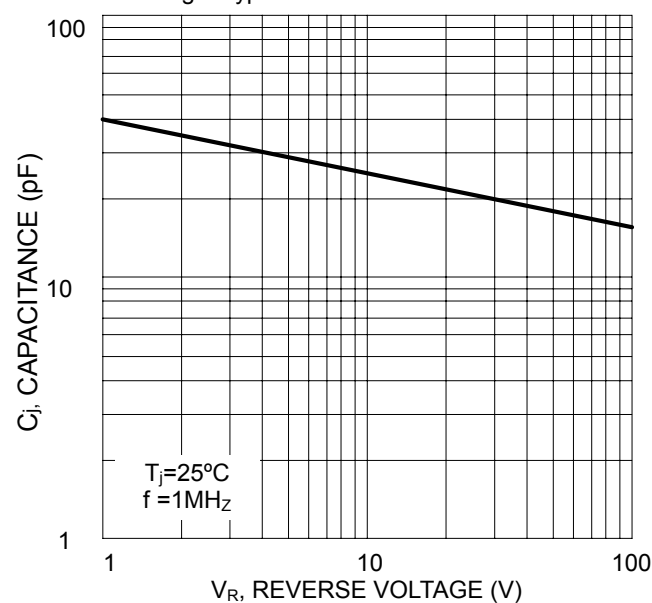


Fig.4 Typical Junction Capacitance

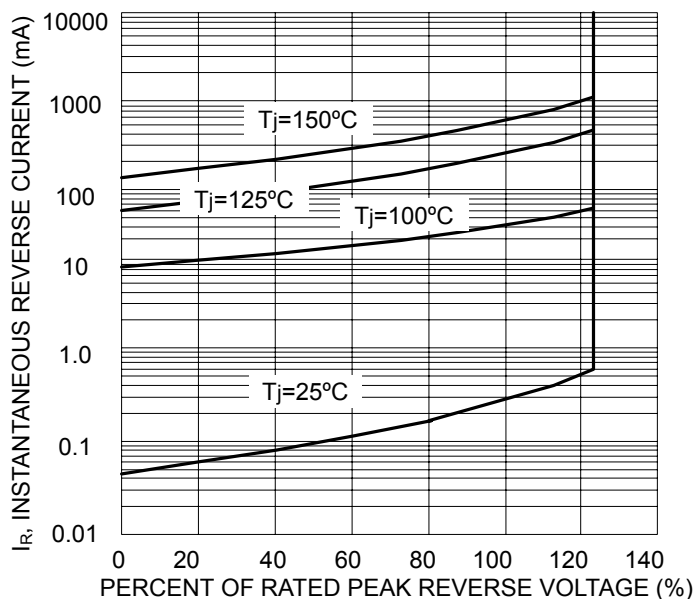
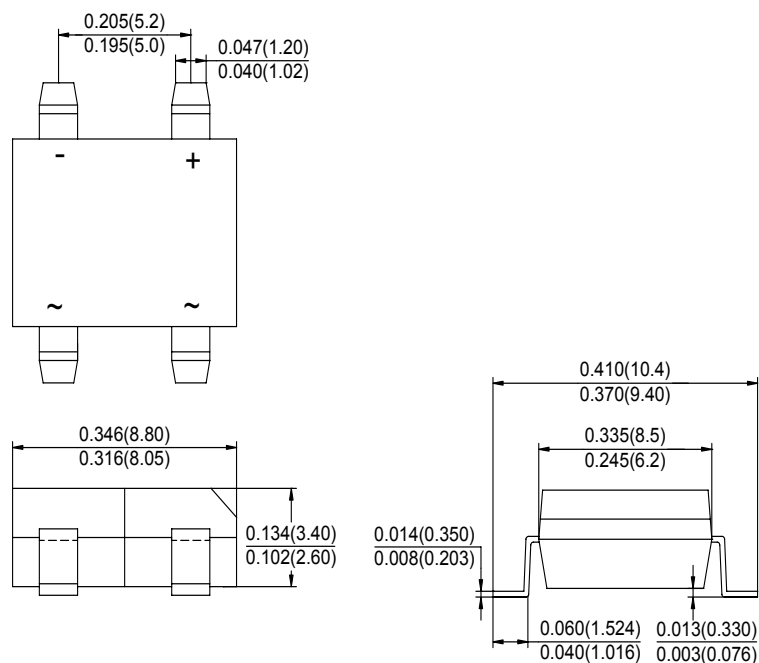


Fig.5 Typical Reverse Characteristics

Package Outline Information

CASE: SDB-1



Dimensions in inches (mm)